ELECTRONIC CASH REGISTER

PCR-460

OPERATOR'S INSTRUCTION MANUAL

20 (40) Department with S drawer

CI

CASIO

Welcome to the CASIO PCR-460!

Congratulations upon your selection of a CASIO Personal Cash Register, which is designed to provide years of reliable operation.
Operation of a CASIO cash register is simple enough to be mastered without special training. Everything you need to know is included in this manual, so keep it on hand for reference.
Consult your CASIO dealer if you have any questions about points not specifically covered in this manual.

CASIO AUTHORIZED SERVICE CENTER

If your Casio product needs repair, or you wish to purchase replacement parts, please call 1-800-YO-CASIO for the authorized service center nearest your home.
If for any reason this product is to be returned to the store where purchased, it must be packed in the original carton/package.
If you need programming assistance, please call 1-800-638-9228.
Thank you.

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (Not applicable to other areas)

WARNING: This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.
Operation of this equipment in a residential area is likely to cause interference in which case the user at his/her own expense will be required to take whatever measures may be required to correct the interference.

The main plug on this equipment must be used to disconnect mains power.
Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

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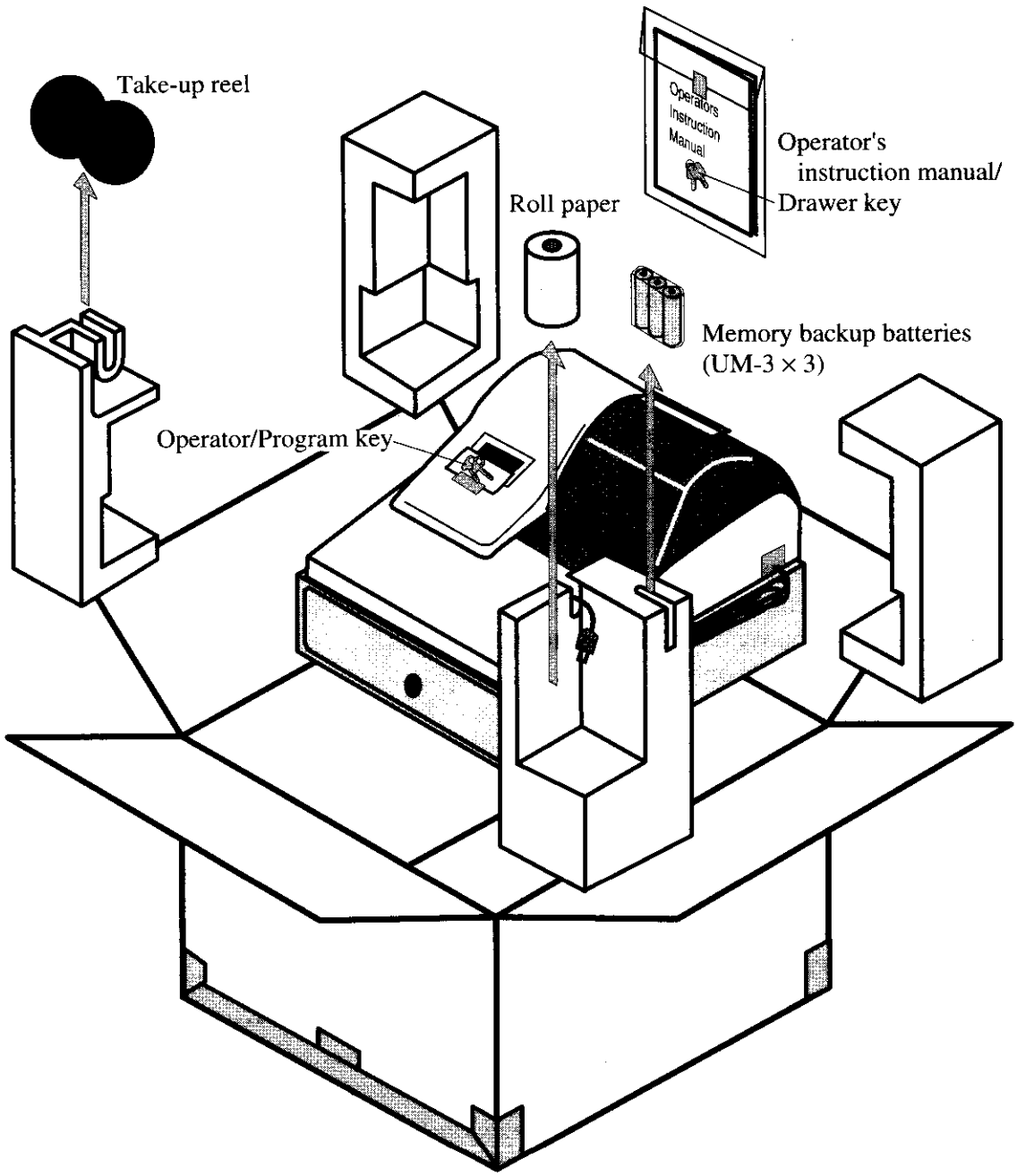
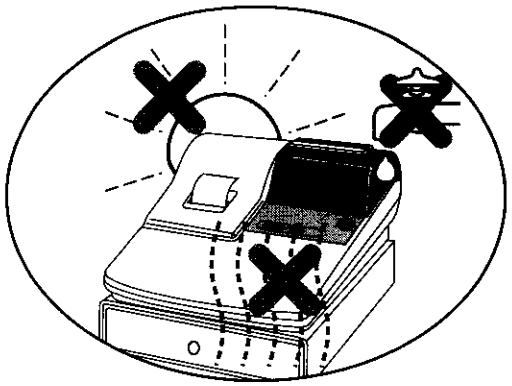
Unpacking the register

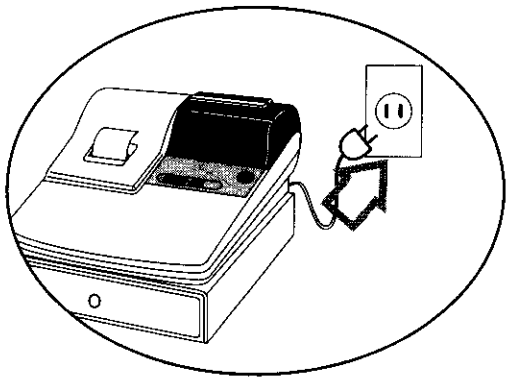


Important!

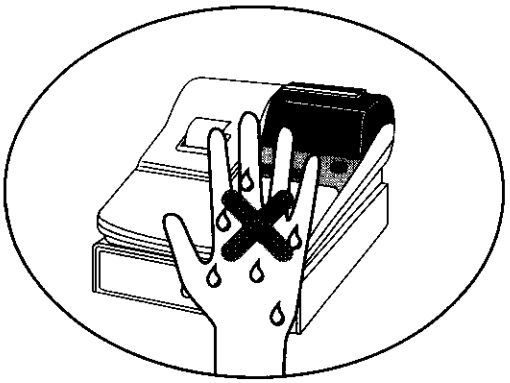
Before you do anything, be sure to note the following important precautions!



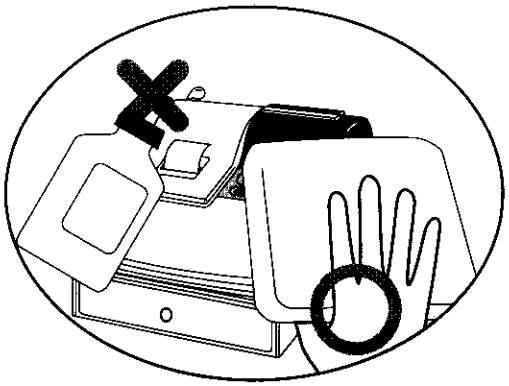
Do not locate the cash register where it will be subjected to direct sunlight, high humidity, splashing with water or other liquids, or high temperature (such as near a heater).



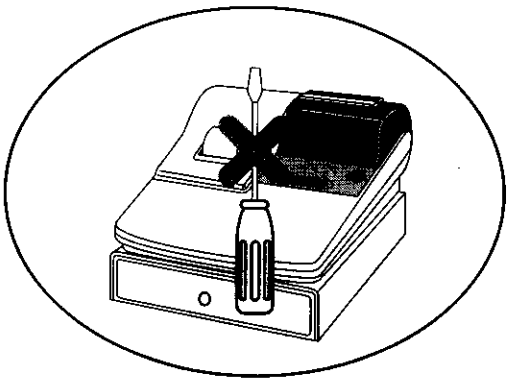
Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in the area.



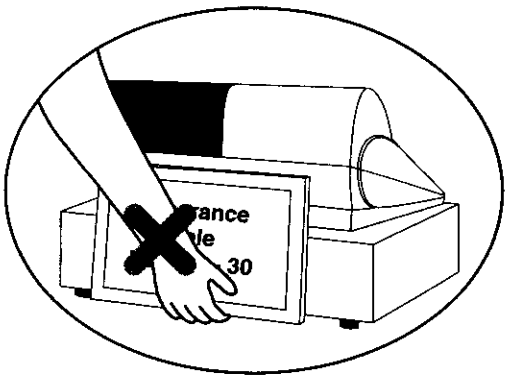
Never operate the cash register while your hands are wet.



Use a soft, dry cloth to clean the exterior of the cash register. Never use benzene, thinner, or any other volatile agent.



Never try to open the cash register or attempt your own repairs. Take the cash register to your authorized CASIO dealer for repairs.

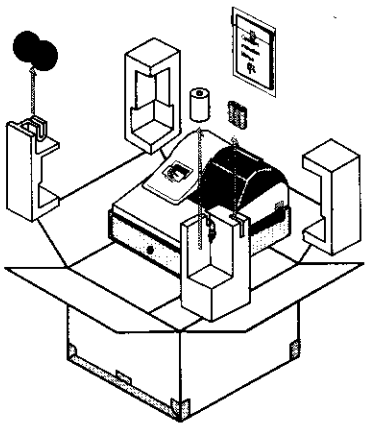


Never lift the cash register by the rear promotional panel.

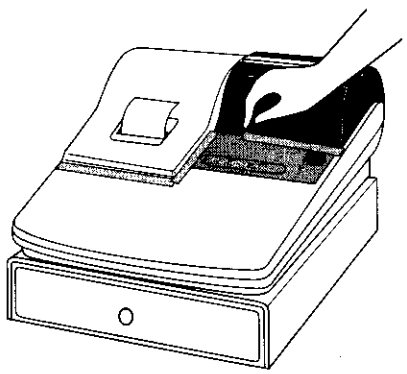
This section outlines how to unpack the cash register and get it ready to operate. You should read this part of the manual even if you have used a cash register before. The following is the basic set up procedure, along with page references where you should look for more details.

1. Remove the cash register from its box.

Make sure that all of the parts and accessories are included.



2.

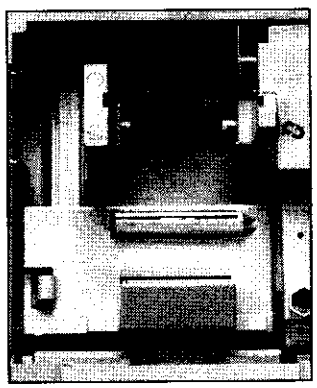


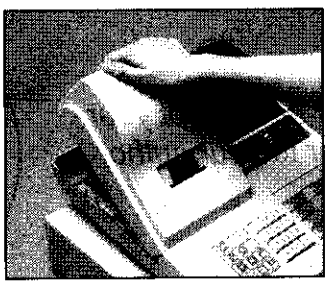
Remove the tape holding parts of the cash register in place.

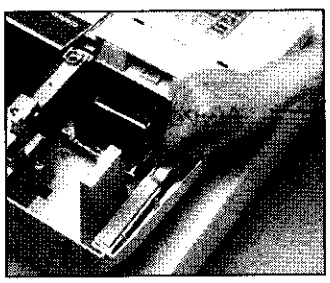
Also remove the small plastic bag taped to the printer cover. Inside you will find the mode keys.

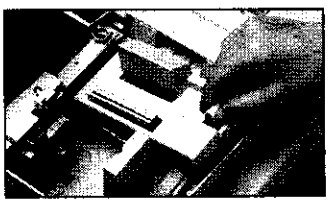
3.

Install the three memory backup batteries.





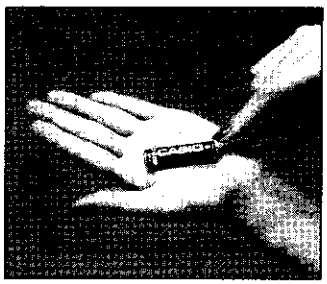


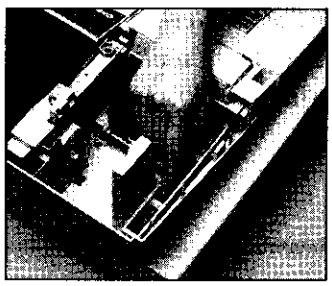


1. Remove the printer cover and inner cover.

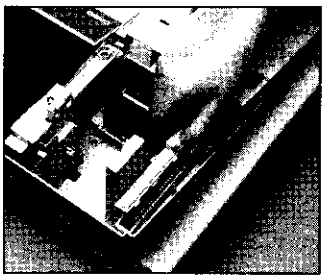
2. Remove the battery compartment cover. Pressing down where the cover is marked " " and put it up.

3. Install the three memory backup batteries (continued).

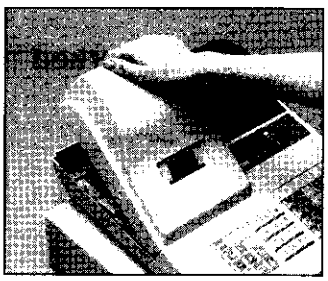




3. Note the (+) and (–) markings in the battery compartment. Load a set of three new SUM-3 (UM-3) batteries so that their positive (+) and negative (–) ends are facing as indicated by the markings.



4. Replace the battery compartment cover.



5. Replace the inner cover and printer cover.

Important!

These batteries protect the information stored in your cash register's memory when there is a power failure or when you unplug the cash register. Be sure to install these batteries.

Precaution!

Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the cash register. Note the followings.

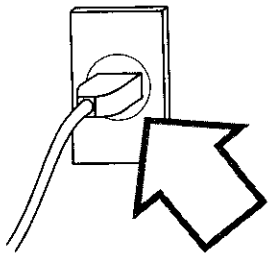
- Be sure that the positive (+) and negative (–) ends of the batteries are facing as marked in the battery compartment when you load them into the unit.
- Never mix batteries of different types.
- Never mix old batteries with new ones.
- Never leave dead batteries in the battery compartment.
- Remove the batteries if you do not plan to use the cash register for long periods.
- Replace the batteries at least once every two years, no matter how much the cash register is used during the period.

WARNING!

- Never try to recharge the batteries supplied with the unit.
- Do not expose batteries to direct heat, let them become shorted or try to take them apart.

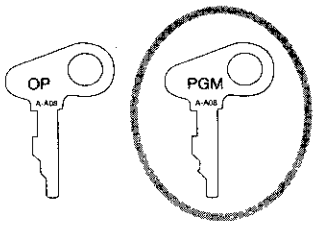
Keep batteries out of the reach of small children. If your child should swallow a battery, consult a physician immediately.

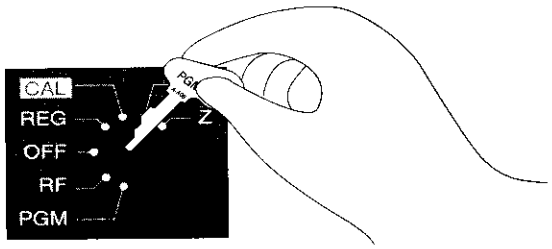
4.



Plug the cash register into a wall outlet.
Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in your area. The printer will operate for a few seconds.

5. Insert the mode key marked "PGM" into the Mode Switch.





6. Turn the mode key to the "REG" position.

The display should change to the following.

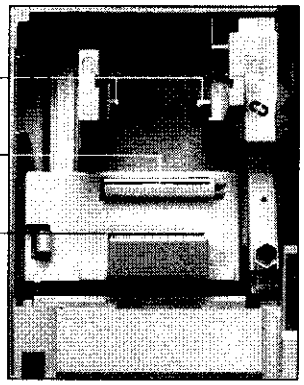
7. Install receipt/journal paper.

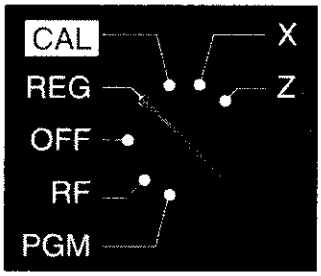
Important!

Never operate the cash register without paper.
It can damage the printer.

7. Install receipt/journal paper (continued).

To load 1-ply paper for printing of receipts

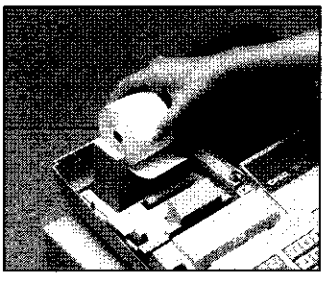




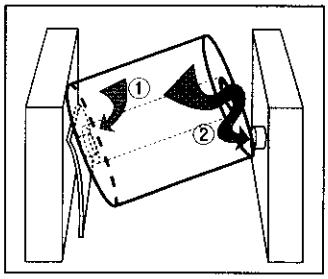
① Use a mode key to set the mode switch to the REG position.

② Remove the printer cover.

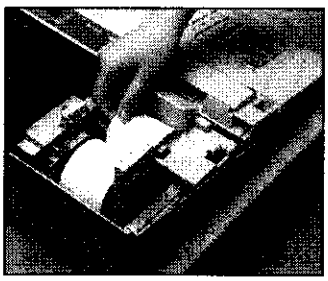
③ Cut off the leading end of the paper so it is even.



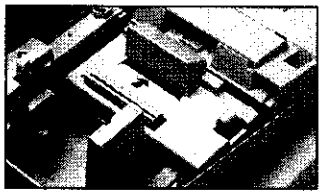
④ Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.

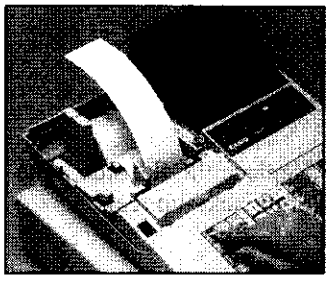


⑤ Work the paper roll gently between the two spindles so that they slip into the center hubs of the roll.



⑥ Press paper over silver plate.





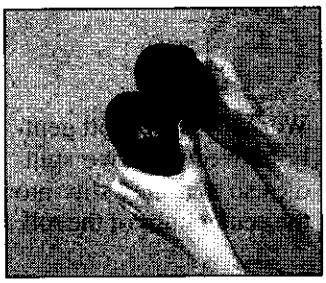
⑦ Press the FEED key until about 20 cm or 30 cm of paper is fed from the printer.

⑧ Replace the printer cover, passing the leading end of the paper through the cutter slot. Tear off the excess paper.

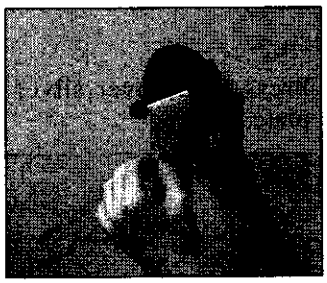
7. Install receipt/journal paper (continued).

To load 1-ply paper for printing of journal

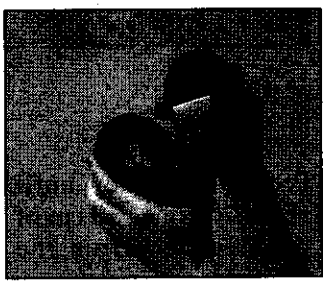
Follow steps ① through ⑦ under "To load 1-ply paper for printing of receipts" on the previous page.



⑧ Remove the flat side plate of the take-up reel.

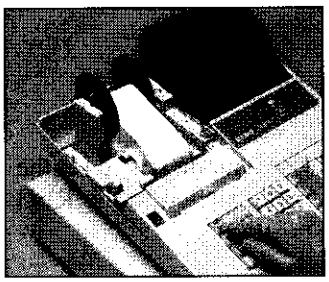


⑨ Slide the leading end of the paper into the groove on the spindle of the take-up reel and wind it onto the reel two or three turns.



⑩ Replace the flat side plate of the take-up reel.

⑪ Place the take-up reel into place behind the printer, above the roll paper.



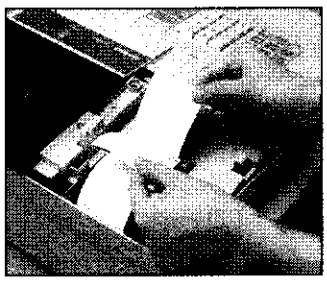
⑫ Press the FEED key to take up any slack in the paper.

⑬ Replace the printer cover.

7. Install receipt/journal paper (continued).

To load 2-ply paper for printing of receipts

Follow steps ① through ⑤ under "To load 1-ply paper for printing of receipts" on page 11.



⑥

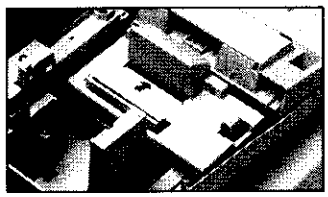
Separate the two sheets of the paper. Pass the outer sheet under the separator.

⑦

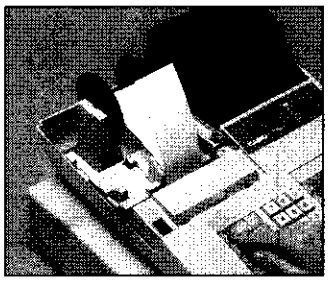
Pass the inner sheet over the separator.

⑧

Join the ends of the paper again and insert them into the paper inlet.



Pass paper over silver plate.



⑨

Press the FEED key until about 20cm or 30cm of paper is fed from the printer.

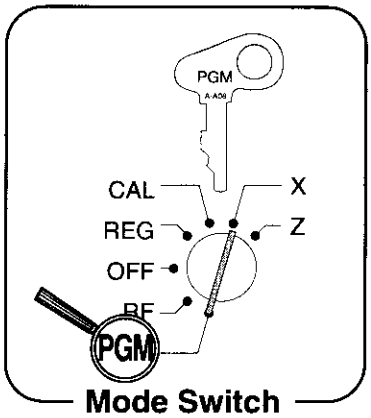
⑩

Insert the leading end of the inner sheet (which will be your journal) into the take-up reel, as described starting from step ② under "To load 1-ply paper for printing of receipts."

⑪

Replace the printer cover, passing the leading end of the outer sheet through the cutter slot. Tear off the excess paper.

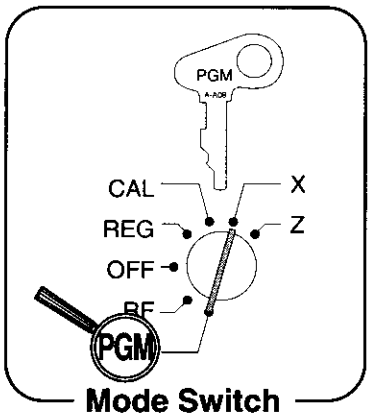
8. Set the date.



➡ 1 SUB TOTAL ➡ Current Date ➡ X/FOR DATE TIME ➡ C CAC

Example:
December 6, 1996 ⇨ 9 6 1 2 0 6

9. Set the time.

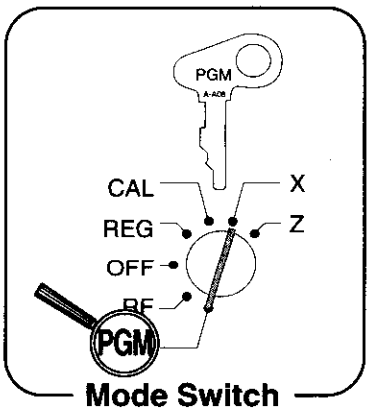


➡ 1 SUB TOTAL ➡ Current Time ➡ X/FOR DATE TIME ➡ C CAC

Example:
09:05 AM ⇨ 0 9 0 5

09:20 PM ⇨ 2 1 2 0

10. Select printouts receipt or journal.



➡ 1 SUB TOTAL ➡ RECEIPT (0)/JOURNAL (1) ➡ CH ➡ SUB TOTAL

Note:
Be sure to select "0" (Receipts) when you use 2-ply paper.

Programming automatic tax calculation

Important!

After you program the tax calculations, you also have to individually specify which departments (page 34) and PLUs (page 36) are to be taxed.

For this cash register to be able to automatically register state sales tax, you must program its tax tables with tax calculation data from the tax table for your state. There are two tax tables that you can program for automatic calculation of two separate sales taxes.

Programming for the U.S. Tax Tables Procedure

Find your state in the table (page 16 ~ 19) and input the data shown in the table.
State sales tax calculation data tables for all of the states that make up the United States are included on the following pages. This data is current as of October 30, 1994.*

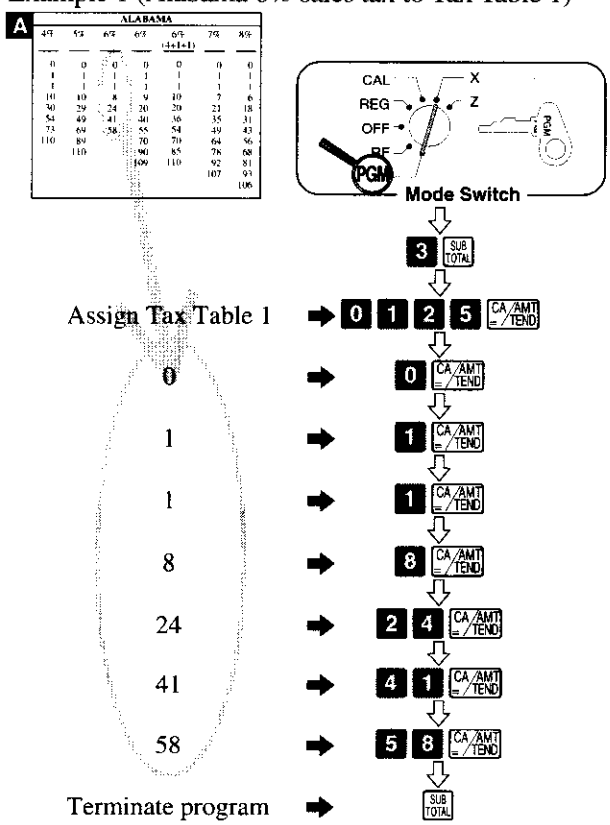
*Some data are revised after Oct. 30, 1994.

Important!

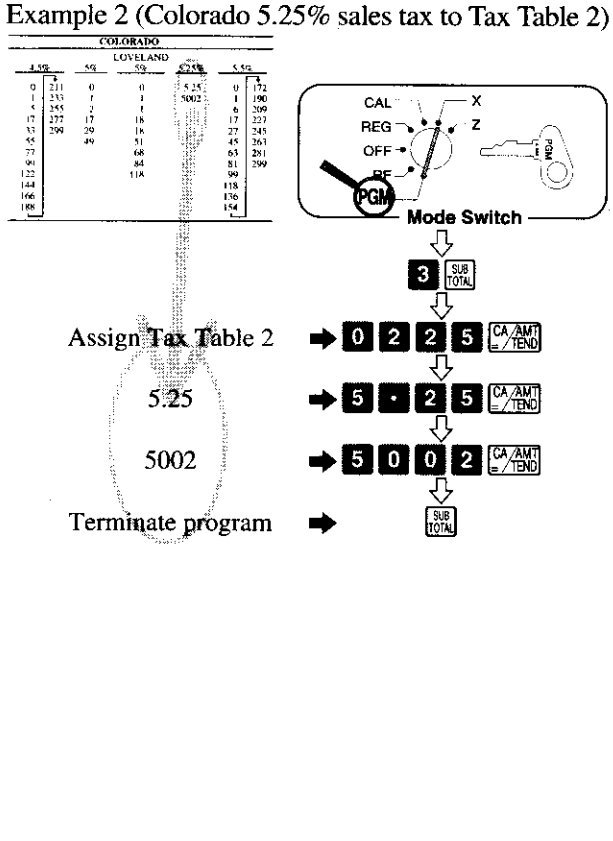
Be sure you use the state sales tax data specifically for your state. Even if your state uses the same tax rate percentage as another state, inputting the wrong data will cause incorrect result.

Programming procedure

Example 1 (Alabama 6% sales tax to Tax Table 1)



Example 2 (Colorado 5.25% sales tax to Tax Table 2)



U.S. TAX TABLES

A

ALABAMA

4%	5%	6%	6%	6% (4+1+1)	7%	8%
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
10	10	8	9	10	7	6
30	29	24	20	20	21	18
54	49	41	40	36	35	31
73	69	58	55	54	49	43
110	89		70	70	64	56
	110		90	85	78	68
			109	110	92	81
					107	93
						106

ALASKA

KENAI 2%	KENAI 3%	HOMER/ SELDOVIA 3%	HAINES 4%	JUNEAU 4%	KENAI 5%	KENAI,SEWARD & SOLDOTNA 5%
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	4	4	2	1	6	1
25	34	25	19	12	13	09
75	49	34	37	37	25	29
	83	75	62		46	49
	116	127			75	69
	150	155			79	89
	183	177			118	109
	216	227			127	
					151	

ALASKA

HOMER 5.5%			6%	
0	145	345	6	159
1	163	363	2	179
1	181	381	29	199
8	208	408	29	219
27	227		49	239
45	245		69	259
63	263		89	259
81	281		109	279
99	299		109	300
108	308		129	
127	327		159	

ARIZONA

4%	5%	6%		6.5%		6.7%		6.8%			7%
0	0	0	175	0	161	0	156	0	153	345	0
1	1	1	191	1	176	1	171	1	168	359	1
1	5	9		7	192	7	186	3	183	374	1
12	10	10		7	207	7	201	6	198	389	7
37	27	22		23	223	22	216	21	212	403	21
	47	39		38	238	37	231	36	227	418	35
	68	56		53	253	52	246	50	242	433	49
	89	73		69	269	67	261	65	256	448	64
	109	90		84	284	82	276	80	271	452	78
		107		99	299	97	291	95	286	477	92
		125		115		111		109	300	492	107
		141		130		126		124	315	506	
		158		146		141		139	330		

ARKANSAS

3%	4%	5%	6%	6.8%	7%	7.5%
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	2	1	2
14	12	10	8	6	7	6
44	37	20	24	19	21	19
74		40	41	33	35	33
114		60	58	46	49	46
		80			64	
		110			78	
					92	
					107	

C

CALIFORNIA

6%		6.25%	6.5%			6.75%	7%			7.25%		7.25%	7.5%	7.75%	8.25%	8.5%		LOS ANGELES 10% Parking	
0	141	0	0	130	299	6.75	0	121	278	7.25	117	7.25	0	7.75	8.25	0	99	0	99
1	158	1	1	146		5002	1	135	292	5002	131	5002	1	5002	5002	1	111	1	99
7		7	7	161		0	8	149	307	0			3			1	123	11	104
10		10	10	176		10	10	164		10			6			5	135	99	114
22		21	20	192		20	20	178		20			19			17	147	99	124
39		37	35	207		34	33	192		32			33			29	158	99	134
56		54	51	223		48	47	207		46			46			41	170	99	144
73		70	67	238		64	62	221		60			59			52	182	99	154
90		86	83	253		80	76	235		74			73			64	194	99	
108		103	99	269		96	91	249		88						76	205	99	
124		119	115	284		111	107	264		103						88		99	

COLORADO

1.5%	2%	2.5%	3%	3.5%	3.6%		3.85%	4%	4.5%		5%	5%	5.25%	5.5%		5.6%		5.75%		6%	6.1%	6.35%	6.4%
0	0	0	0	0	0	264	0	0	0	211	0	0	5.25	0	172	0	168	0	165	0	6.1	6.35	6.4
1	1	1	1	1	1	291	1	1	1	233	1	1	5002	1	190	1	186	1	182	1	5002	5002	5002
1	1	1	3	2	5	319	2	2	5	255	2	1		6	209	7	204	8	199	2	0		0
33	24	19	17	17	17	347	16	17	17	277	17	18		17	227	16	222	17	217	17	17		17
99	74	59	49	42	41	375	37	37	33	299	29	18		27	245	25	240	26		24			
166			83	71	69		63	62	55		49	51		45	263	43		43		41			
233			116	99	97				77			68		63	281	61		60		58			
			149	128	124				99			84		81	299	79		78		74			
			183	157	152				122			118		99		97		95					
				185	180				144					118		115		113					
				214	208				166					136		132		130					
				242	236				188					154		150		147					

COLORADO

6.45%	6.5%		6.6%	7%		7.01%	7.1%	7.2%		7.25%	7.3%		7.5%	8%
6.45	0	146	6.6	0	135	7.01	7.1	0	131	7.25	0	130	0	0
5002	1	161	5002	1	149	5002	5002	1	145	5002	1	143	1	1
0	2	176		4		0		2	159		3	157	3	1
17	17	192		17		17		17	173		6	171	17	6
	23	207		21		21		20	187		20		19	18
	38	223		35		35		34	201		34		33	31
	53			49		49		48	215		47		46	43
	69			64		64		62	229		61		59	56
	84			78				76	243		75		73	68
	99			92				90	256		89			81
	115			107				104			102			93
	130			121				118			116			106

CONNECTICUT

5.25%	6%	7%	7.5%	8%
0	198	0	0	0	0
1	218	1	1	1	1
2		2	1	3	1
16		8	7	6	6
27		24	21	19	18
46		41	35	33	31
65		58	49	46	
84		74	64	59	
103		91	78	73	
122		108	92		
141		124	107		
160					
179					

D

DISTRICT OF COLUMBIA

D.C. 5%	D.C. 5.75%	D.C. 6%	D.C. 6%	D.C. 8%	D.C. 9%	
0	5.75	0	0	0	0	105
1	5002	1	1	1	1	116
1	0	1	1	1	6	127
10	8	12	8	12	6	138
22		17	24	16	16	149
42		35	41	27	27	161
82		53	58	39	38	
62		71	74	50	49	
110		89	91	62	61	
		112	108	75	72	
				90	83	
				112	94	

F

FLORIDA

4%		5%	Combined 5.25%	6%	6.2%	PANAMA CITY BEACH 6.5%		7%		7.5%	
0	175	0	5.25	0	6.2	0	107	0	109	0	93
1	209	1	5002	1	5002	1	123	1		1	106
5		1		1		1	138	1		1	120
9		9		9		9	153	9		9	133
25		20		16		15	169	14		13	146
50		40		33		30	184	28		26	160
75		60		50		46	209	42		40	173
109		80		66		61		57		53	186
125		109		83		76		71		66	209
150				109		92		85		80	

G

GEORGIA

3%	4%	5%	6%
0	0	0	0
1	1	1	1
1	1	1	1
10	10	10	10
35	25	20	20
66	50	40	35
110	75	60	50
	110	80	67
		110	85
			110

H

HAWAII

4%
0
1
1
12
37

I

IDAHO

3%	4%	4.5%		5%
0	0	0	227	0
1	1	1		1
1	2	2		2
15	11	15		11
42	32	27		25
72	57	49		45
115		71		
		93		
		115		
		137		
		160		
		183		
		205		

ILLINOIS

1%	1.25%	2%	5%	6%	6.25%	6.5%		6.75%	7%	7.5%	7.75%	8%	8.75%
0	0	0	0	0	0	0	161	6.75	0	0	7.75	0	8.75
1	1	1	1	1	1	1	176	5002	1	1	5002	1	5002
1	1	1	6	1	1	1	192		1	1	0	1	0
49	39	24	12	8	7	7	207		8	6	6	6	5
148	119	74	25	24	23	23			22	19		18	
			46	41		38			36	33		31	
			67	58		53			50	46			
			88			69			65				
			109			84			79				
			129			99			93				
						115			108				
						130							
						146							

INDIANA

1%	4%	5%	MARION County 5%	RESTAURANT 6%
0	0	0	0	0
1	1	1	1	1
1	2	1	2	1
49	15	9	15	9
148	37	29	37	29
	62		49	49
			62	49
			87	69
			112	89
			137	109

IOWA

4%	5%	6%
0	0	0
1	1	1
3	1	1
12	9	8
37	29	24
50		41
75		58
		74
		91
		108

K

KANSAS

2.5%	3%	3.1%	3.25%		3.5%	3.75%		4%	4.1%	4.5%	4.9%			5%	5.25%	5.4%		5.5%	5.65%
0	0	3.1	0	323	0	0	279	0	4.1	0	0	214	479	744	1010	0	5.25	0	194	435	0	190	5.65
1	1	5002	1	353	1	1	306	1	5002	1	1	234	499	765		1	5002	1	212	453	1	209	5002
1	1	0	1	384	1	1	333	1	0	1	1	255	520	785		1		1	231	472	1		0
19	16	16	15	415	14	13	359	12	12	11	10	275	540	806		9		9	249	490	9		8
59	49		46		42	39	386	37		33	30	295	561	826		29		27	268	509	27		
99	83		76		71	66	413	62		55	51	316	581	846				46	287		45		
139	116		107		99	93		87		77	71	336	602	867				64	305		63		
179			138		128	119		112		99	91	357	622	887				83	324		81		
			169		157	146				122	112	377	642	908				101	342		99		
			199		185	173				144	132	397	663	928				120	361		118		
			230			199				166	153	418	683	948				138	379		136		
			261			226				188	173	438	704	969				157	398		154		
			292			253				211	193	459	724	989				175	416		172		

KANSAS

5.9%	6%	6.15%	6.4%	6.5%	9.5%		10%
5.9	0	6.15	6.4	6.5	0	110	0
5002	1	5002	5002	5002	1	121	1
0	7	0	0	0	1	131	1
8	8	8	7	7	5	142	4
	24				15	152	14
	41				26	163	24
	58				36	173	34
	74				47	184	44
	91				57	194	54
	108				68		64
	124				78		74
	141				89		84
	158				99		94

KENTUCKY

5%	6%
0	0
1	1
6	2
10	8
25	24
46	41
67	58
88	74
109	
129	

L

LOUISIANA

2%	3%	4%	4.5%	5%	6%	6%		7%	7.5%	8%	9%
0	0	0	0	0	0	0	161	0	0	0	0
1	1	1	1	1	1	1	176	1	1	1	1
2	2	2	1	1	2	17	192	1	2	7	1
24	16	12	11	10	8	7	207	7	6	4	5
74	49	37	33	27	24	23	223	21	19	16	16
124	82	62	55	47	41	38	238	35	33	29	27
174	116	87	77	67	58	53	253	49	46	42	38
224	149	112	99	87	74	69	269	64	59	55	49
			122	109		84	284			67	61
			144	129		99	299			80	72
			166			115	315			93	83
			188			130	330			106	94
			211			146					105

M

MAINE

5%	6%	7%
0	0	7
1	1	2
1	1	0
10	9	7
20	16	21
40	33	35
60	50	49
80	66	64
110	83	78
	109	92
		100

MARYLAND

4%	5%	Meals Tax 5%
0	0	0
1	1	1
2	2	7
24	19	99
25	20	99
50	40	99
		99
		99
		100
		120
		140

MASSACHUSETTS

4.625%		5%
0	227	0
1	248	1
13	270	1
10	291	9
32	313	29
54	335	
75	356	
97	378	
118	399	
140	421	
162	443	
183		
205		

MICHIGAN

4%	6%
0	0
1	1
7	2
12	10
31	24
54	41
81	58
108	74
135	91
162	108
187	124

MINNESOTA

6%	6.5%		7%	8.5%	
0	0	161	0	0	123
1	1	176	1	1	135
1	1	192	1	1	147
8	7	207	7	5	158
24	23		21	17	170
41	38		35	29	182
58	53		49	41	194
	69		64	52	205
	84		78	64	
	99		92	76	
	115		107	88	
	130			99	
	146			111	

MISSISSIPPI

5%	6%	7%	7.25%			8%	8.5%		9%	9.25%
0	0	0	0	144	324	0	0	123	0	9.25
1	1	1	1	158	337	1	1	135	1	5002
6	1	1	1	172	351	1	1	147	1	0
11	8	7	6	186	365	6	5	158	5	5
26	24	21	20	199	379	18	17	170	16	
47	41	35	34	213	393	31	29	182	27	
68	58	49	48	227	406	43	41	194	38	
88	74	64	62	241		56	52	205	49	
109	91	78	75	255		68	64		61	
129	108	92	89	268		81	76		72	
		107	103	282		93	88		83	
			117	296		106	99		94	
			131	310			111		105	

MISSOURI

4.225%	4.6%	4.625%		4.725%	4.75%	4.8%	4.975%		5.05%	5.1%	5.225%	5.6%		5.625%	5.725%	5.975%			6.1%	6.225%		6.3%	6.425%	
0	0	0	227	0	0	0	0	211	0	0	5.225	0	187	0	5.725	0	175	392	0	0	168	0	166	0	163
1	1	1	248	1	1	1	1		1	1	5002	1	205	1	5002	1	192	410	1	1	184	1	182	1	178
1	1	13	270	4	3	3	1		5	1		15	223	1		2	209		1	2	200	8	198	1	194
11	10	10	291	10	10	10	10		9	9		8	241	8		8	225		8	8	216	7	214	7	210
35	32	32	313	31	22	31	30		19	29		26	258	26		25	242		24	24	232	23	230	23	225
59	54	54	335	52	43	52	50		39	49		44	276	44		41	259		40	40	248	39	246	38	241
82	76	75	356	74	65	72	70		59	68		62	294	62		58	276		57	56	265	55		54	256
	97	97	378	95	86	93	90		79	88		80	312	79		75	292		73	72		71		70	272
		118	399	116	107	114	110		98	107		98	330	97		92	309		90	88		87		85	287
		140	421	137	128	135	130		118			115	348	115		108	326			104		103		101	
		162	443	158	149	156	150		138			133	366	133		125	342			120		119		116	
		183		179	170	177	170		158			151	383	151		142	359			136		134		132	
		205		201			190		178			169		168		158	376			152		150		147	

MISSOURI

6.475%		6.55%	6.725%	7.225%
0	162	0	160	6.725	7.225
1	177	1	175	5002	5002
13	193	9	190		
7	208	7			
23	223	22			
38	239	38			
54	254	53			
69	270	68			
84	285	83			
100	301	99			
115	316	114			
131	332	129			
146		145			

N

NEBRASKA

3%	3.5%	4%	4.5%		5%	5.5%		6%	6.5%	
0	0	0	0	233	0	0	190	0	0	161
1	1	1	1	255	1	1	209	1	1	176
3	3	2	6	277	2	2	227	1	1	192
16	14	14	14	299	14	14		8	7	207
49	42	37	33	322	29	27		24	23	
83	71	62	55		49	45		41	38	
116	99		77			63		58	53	
149	128		99			81			69	
183	157		122			99			84	
	185		144			118			99	
	214		166			136			115	
	242		188			154			130	
	271		211			172			146	

NEVADA

3%	3.5%		5.75%	6%	6.25%		6.5%		6.75%	7%
0	0	299	5.75	0	0	167	0	161	6.75	0
1	1	326	5002	1	1	183	1	176	5002	1
2	6	357		2	2	199	1	192	0	1
14	14			8	7	215	7	207	7	7
49	38			24	23		23		22	21
83	64			41	39		38		37	35
116	88			58	55		53			49
149	118			74	71		69			64
	157				87		84			78
	185				103		99			92
	214				119		115			107
	242				135		130			
	271				151		146			

N

NEW HAMPSHIRE

7%	Rooms & Meals 7%	Rooms & Meals 8%
0	129	0	128	0
1	143	1	142	1
8	158	8	157	4
14	172	35	171	35
26	186	35	185	35
39	201	38	200	35
51		50		37
63		62		50
75		74		62
88		87		
101		100		
115		114		

NEW JERSEY

3%	3.5%	6%	7%
0	0	0	0	150
1	1	1	1	164
1	1	1	8	178
17	14	10	10	192
41	42	22	21	207
71	71	38	35	
117	100	56	50	
	128	72	64	
	157	88	78	
	185	110	92	
	214		107	
			121	
			135	

NEW MEXICO

3.75%	4.25%	4.375%	4.5%	4.875%	5.175%	5.25%	5.375%	5.575%	5.75%
0	280	0	247	0	239	0	4.875	5.175	0	199	5.375	5.575	5.75
1	306	1	270	1		1	5002	5002	1	217	5002	5002	5002
6	333	1	294	4		1			11				
13	359	11	317	11		11			9				
40		35	341	34		33			28				
67		58	364	57		55			47				
93		82	388	79		78			66				
120		105	411	102		100			85				
146		129		125		122			104				
173		152		148		144			123				
200		176		171		167			142				
226		199		194		189			161				
253		223		217		211			180				

NEW MEXICO

6.187%	6.1875%
0	6.1875
1	5002
4	0
9	8
23	
40	
56	
72	
88	
104	
120	
136	
153	

NEW YORK

4%	5%	5.25%	5.75%	6%	6.25%	6.5%	6.75%	7%	7.25%	7.5%	ERIE 8%	SUFFOLK County 8%	8.25%	8.5%
0	0	5.25	5.75	0	141	0	0	130	6.75	0	121	7.25	0	113	0	105	0	106	8.25	8.5
1	1	5002	5002	1	158	1	1	146	5002	1	135	5002	1	126	1	119	1	118	5002	5002
5	6			7		7	1	161		8	149		8	139	10	131	9	131		
12	10			10		10	7	176		10	164		10		10	144	10			
33	27			22		22	23	192		20	178		18		17		17			
58	47			38		38	38	207		33	192		31		29		29			
83	67			56		54	53			47	207		45		42		42			
112	87			72		70	69			62			58		55		54			
137	109			88		86	84			76			71		67		67			
	129			108		103	99			91			85		80		79			
				124		119	115			107			99		92		92			

NORTH CAROLINA

3%	4%	4.5%	5%	CHROKEE Reservations 6%	6%
0	0	0	188	0	0	0
1	1	1	211	1	1	1
4	5	6	233	6	2	2
9	9	9	255	8	10	8
35	29	25	277	23	24	24
70	59	53	299	48	41	41
116	84	75	322	67	58	58
149	112	95		85	74	74
183	137	122		109		91
216		144		129		108
		166				124

NORTH DAKOTA

3%	4%	4%	5%	5.5%	6%	6.5%	7%	8%
0	0	0	0	0	182	0	0	170	0	0
1	1	1	1	1	200	1	1	185	1	1
3	5	2	2	2	219	3	2	200	2	3
15	15	15	15	15		15	15	216	15	15
33	31	25	20	19		17	31	231	15	15
67	51	50	40	37		34	47		29	25
100	71	75		55		50	62		43	38
133	100	100		73		67	77		58	50
166	125	125		91		84	93		72	63
200				110			108		86	75
				128			124		100	88
				146			139		115	100
				164			154			

O

OHIO

5%	5.5%	5.75%	6%	MEIGS Co. 6%	6.25%
0	0	146	5.75	0	0	134	0
1	1	164	5002	1	1		1
2	2	182		2	3		2
15	15	200		15	16		15
20	18	218		17	17		16
40	36			34	34		32
	54			50	50		
	72			67	67		
	90			83	83		
	109			100	100		
	127			117	117		

OHIO

6.5%	7%	CUYAHOGA Co. 7%	7.75%
0	123	0	115	0	115	7.75
1	138	1	128	1	128	5002
3	153	3		3		
15	169	15		15		
15	184	15		15		
30	200	28		28		
46	215	42		42		
61	230	57		57		
76		71		71		
92		85		85		
107		100		100		

OKLAHOMA

2%	3%	3.25%	4%	4.25%	4.5%	5%	5.25%	6%	6.25%	6.725%	7%	7.25%	7.375%	8%	8.25%	9.25%	10.25%
0	0	0	323	0	4.25	0	0	5.25	0	0	6.725	0	7.25	7.375	0	0	0	0
1	1	1	353	1	5002	1	1	5002	1	1	5002	1	5002	5002	1	1	1	1
1	1	7	384	1		2	1		1	1		6		0	1	1	4	1
24	16	15	415	12		11	9		8	7		8		6	6	6	5	4
74	49	46	446	37		33	29		24	23		22			18	18	16	14
	83	76	476			55			41			37			31	30	27	24
	116	107	507			77			58			51				42	37	34
		138	538			99						65				54	48	43
		169	569			121						79				66	59	
		199	599			144						94				78	70	
		230										108				90	81	
		261										122				103	91	
		292																

P

PENNSYLVANIA

6%	7%
0	0	150
1	1	150
1	5	167
10	10	184
17	17	210
34	34	217
50	50	234
67	50	250
84	67	250
110	84	
	110	
	117	
	134	

R

RHODE ISLAND

6%	7%
0	0	149
1	1	164
6	5	178
9	7	192
26	21	207
42	35	221
57	49	235
73	64	249
90	78	264
106	92	
123	107	
140	121	
	135	

S

SOUTH CAROLINA

4%	5%	CHARLESTON 6%
0	0	0
1	1	1
5	6	2
10	10	10
25	20	24
50	40	41
75	60	41
112	80	58
137	109	74
	129	91
		108
		124

SOUTH DAKOTA

4%	5%	5.5%	6%	6.5%	7%
0	0	0	190	0	0	161	0	149
1	1	1	210	1	1	176	1	
1	1	1		1	1	192	4	
12	10	10		9	7	207	7	
37	30	28		26	23		21	
		46		43	38		35	
		64		60	53		49	
		82		76	69		64	
		100		92	84		78	
		118		109	99		92	
		136			115		107	
		154			130		121	
		172			146		135	

T

TENNESSE

4.5%	5.5%	6%	6.25%	6.5%	6.75%	7%	COUNTY TAX 7.25%	7.5%	7.75%	8%	8%	8.25%	8.5%	8.75%
0	188	0	154	354	0	0	0	130	0	125	0	121	0	117	0	7.75	0	0	106	8.25	0	99	8.75
1	211	1	172	372	1	1	1	146	1	140	1		1	130	1	5002	1	1	118	5002	1	111	5002
1		11	190	390	2	2	2	161	8	155	2		10	144	2		2	2			2	123	
11		10	209		10	10	10	176	10	170	10		10	158	10		10	10			10	135	
33		27	227		24	23	23	192	22	185	21		20	172	19		18	18			17	147	
55		45	245		41	39	38	207	37	199	35		34	185	33		31	31			29	158	
77		63	263		58	55	53	223	51	214	49		48		46		43	43			41	170	
99		81	281		74	71	69		66	229	64		61		59			56			52	182	
122		99	299			87	84		81	244	78		75					68			64	194	
144		119	318				99		96	259	92		89					81			76	205	
166		136	336				115		111	274	107		103					93			88	217	

T

TEXAS

4%	4%	4.125%		4.625%	5%	5.125%	5.25%		5.375%	5.5%		5.625%	6%	DALLAS 6%	HOUSTON (Harris County) 6%	6.125%	6.25%	6.25%	6.75%	
0	0	0	206	4.625	0	5.125	0	161	5.375	0	155	0	151	0	0	0	6.125	0	6.25	0	125	288
1	1	1	230	5002	1	5002	1	180	5002	1	173	1	168	1	1	1	5002	1	5002	1	140	303
1	1	1	254		1		12	199		1	191	1		1	1	1		1		3	155	318
12	12	12	278		9		9	219		9	209	8		8	9	8		7		8	170	333
37	37	36	303		29		28	238		27		26		24	25	24		23		22	185	348
	62	60	327		49		47			45		44		41	42	41		39		37	199	362
	87	84	351		69		66			63		62		58	59	58		55		51	215	377
		109	375				85			81		79				74		71		66	229	392
		133	399				104			99		97				91		87		81	244	407
		157	424				123			118		115				108		103		96	259	422
		181					142			137		133						119		111	274	437

TEXAS

7%		7.25%	7.5%		7.75%		8%	8.25%
0	107	7.25	0	0	96	0	8.25	
1		5002	1	1	109	1	5002	
1			1	5	122	1		
7			6	6	135	6		
21			19	19	148	18		
35			33	32	161	31		
49			46	45	174			
64			59	58	187			
78			73	70				
92			86	83				

U

UTAH

4.75%		5%	5.25%		5.375%	5.5%		5.75%	5.875%	6%	6.125%	6.25%	7%	7.25%
0	221	0	0	199	0	0	190	5.75	5.875	0	6.125	0	0	7.25
1	242	1	1	219	1	1	209	5002	5002	1	5002	1	1	5002
1	263	1	1	238	1	1			0	2	0	4	2	
10	284	9	9	257	9	9			8	8	8	7	7	
31	305	29	28	276	27	27				24		23	21	
52	326		47	295	46	45				41		27	35	
73	347		66	314	65	63				58		47	49	
94	368		85	333	83	81				74		63	64	
115	389		104	352	102	99							78	
136	410		123	371		118							92	
157			142	390		136							107	
178			161	409		154								
199			180			172								

V

VERMONT

3%	4%	5%	8%
0	0	0	0
1	1	1	1
4	2	2	0
13	10	10	18
33	25	20	31
66	50	40	43
100		80	56
133		100	68
166		120	81
200		140	93
			100

VIRGINIA

4%			ARLINGTON COUNTY 4%	4.5%		FAIRFAX 5.5%	FAIRFAX CITY Meals tax 6.5%	HAMPTON Restaurant 7%			LEESBURG Meal tax 7%	RICHMOND Restaurant 7%	ALEXANDRIA 7.5%	NEWPORT NEWS 7.5%	RICHMOND 7.5%	Restaurant 8%	
0	214	484	0	0	188	0	149	0	124	0	114	284	0	0	7.5	0	116	0	0	114
1	234	512	1	1	211	1	166	1	144	1	134		1	1	5002	1	122	1	1	114
21	259	537	2	5	233	4	188	1	166	13	149		1	1		1	144	2	5	134
14	284		12	15	255	11	211	11	174	14	159		7	14		11	149	6	14	134
34	314		37	33	277	14	233	24	188	29	184		21	14		16	166	19	34	159
59	334		62	55	299	33	249	33	211	34	184		35	34		33	183	33	44	
84	359		87	77		55	255	55		44	214		49	59		49	188	46	44	
114	384		112	99		77		74		59	214		64	59		55	211	59	59	
134	414		137	122		99		77		74	234		78	84		77			59	
159	434			144		122		99		84	249		92	84		83			84	
184	459			166		144		122		114	259		107	114		99			84	

VIRGINIA

ROANOKE CITY VA BEACH 8.5%		9%	NORFOLK CITY Meal tax 9%			CITY OF RICHMOND Food tax 9.5%			9.5%		
0	99	9	0	99	211	0	89	205	0	89	209
1	112	5002	1	99	233	1	99		1	99	
1	122		6	122	233	1	110		1	109	
11	137		11	122		5	121		9	122	
12	144		33	144		15	131		11	129	
33	162		44	144		26	142		29	144	
37	166		44	166		36	152		33	149	
55	187		55	166		47	163		49	166	
62	188		55	188		57	173		55	169	
77	211		77	188		68	184		69	188	
87			77	211		78	194		77	189	

W

WASHINGTON

7%	7.2%		7.3%		7.5%		7.55%	4.125%		7.8%	7.9%	8%	8.1%		Combined 8.1%	8.2%			8.7%
0	0	131	0	129	0	126	0	0	124	7.8	0	0	0	117	8.1	0	115	262	408	0
1	1		1	143	1	139	1	1	138	2	1	1	1	129	2	1	128	274	420	1
1	1		1	156	1	153	2	3	151	0	2	1	14	141	0	1	140	286	432	1
7	6		6	170	6	166	7	6	164	7	6	6	6	154	6	6	152	296	445	5
21	20		19	184	19	179	19	19	177	19	18	18	18	166	18	18	164	310	457	17
35	34		33	198	33	193	33	32	190	32	31	31	30	179	30	30	176	323	469	28
49	48		47	211	46	206	46	46	203	44	44		43	191	43	42	189	335	481	
64	62		61	225	59		59	59	217	57	56		55	203	55	54	201	347	493	
78	76		74	239	73		72	72	230	70			67		67	67	213	359	506	
92	90		88	252	86			85	243	83			80		80	79	225	371		
107	104		102		99			98	256				92			91	237	384		
	118		115		113			111	269				104			103	249	396		

WEST VIRGINIA

2%	3%	4%	5%	6%
0	0	0	0	0
1	1	1	1	1
2	2	1	2	2
25	5	12	5	5
50	35	37	20	16
100	70		40	33
	100			50
	135			67
				84
				100
				116

WISCONSIN

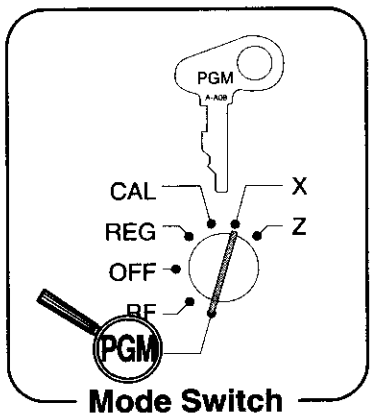
4%	5%	5.5%		5.6%
0	0	0	190	0
1	1	1	209	1
1	1	1		1
12	10	9		8
37	21	27		26
	41	45		44
	61	63		62
	81	81		80
	110	99		98
		118		116
		136		133
		154		
		172		

WYOMING

3%	4%	5%	6%
0	0	0	0
1	1	1	1
2	2	2	3
24	24	24	24
49	37	29	24
83	62	49	34
116		69	51
149		89	68
		109	84

12. Setting the store telephone number

(This step can be skipped.)



→ 3 [SUB TOTAL] → 0 1 3 2 [SUB TOTAL] → Enter your store telephone number in 10 digits. → [CA/AMT =/TEND] → [SUB TOTAL]

Example:
(123)456-7890 enter as "1234567890".

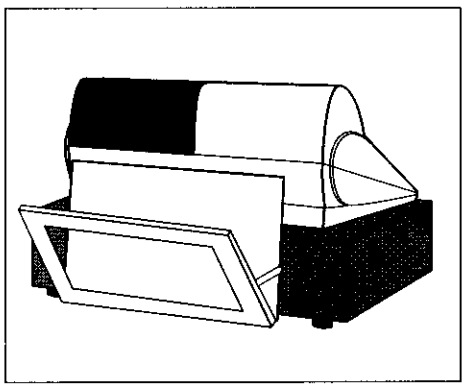
Receipt Sample

```
   123-
   456-7890

   12-06-96
    1  12-35
       0025

01    •10•00I
02    •20•00II
        10    %  -
       -2•00II
      •10•00I  TA
       •0•40I  TX
      •18•00II TA
       •0•90II TX

      •29•30   TL
      •50•00CA AT
      •20•70CG
         2     No
```

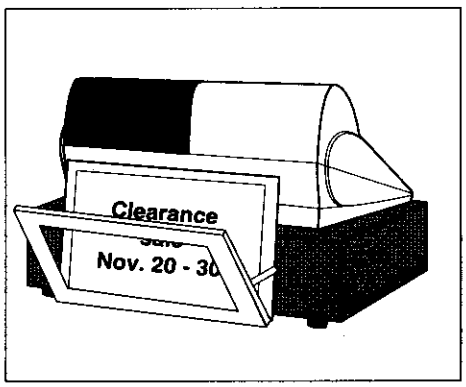
Telephone number
(Adds hyphens automatically.)

13. Setting an advertisement in the rear promotional panel

(This step can be skipped.)



① Open the rear promotional panel.



② Insert an advertisement sheet.

③ Close the rear promotional panel.

Specification of the advertisement sheet

Size: See Fig. 1.

Thickness: Max. 0.5mm

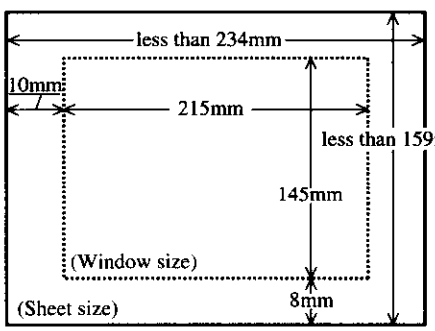
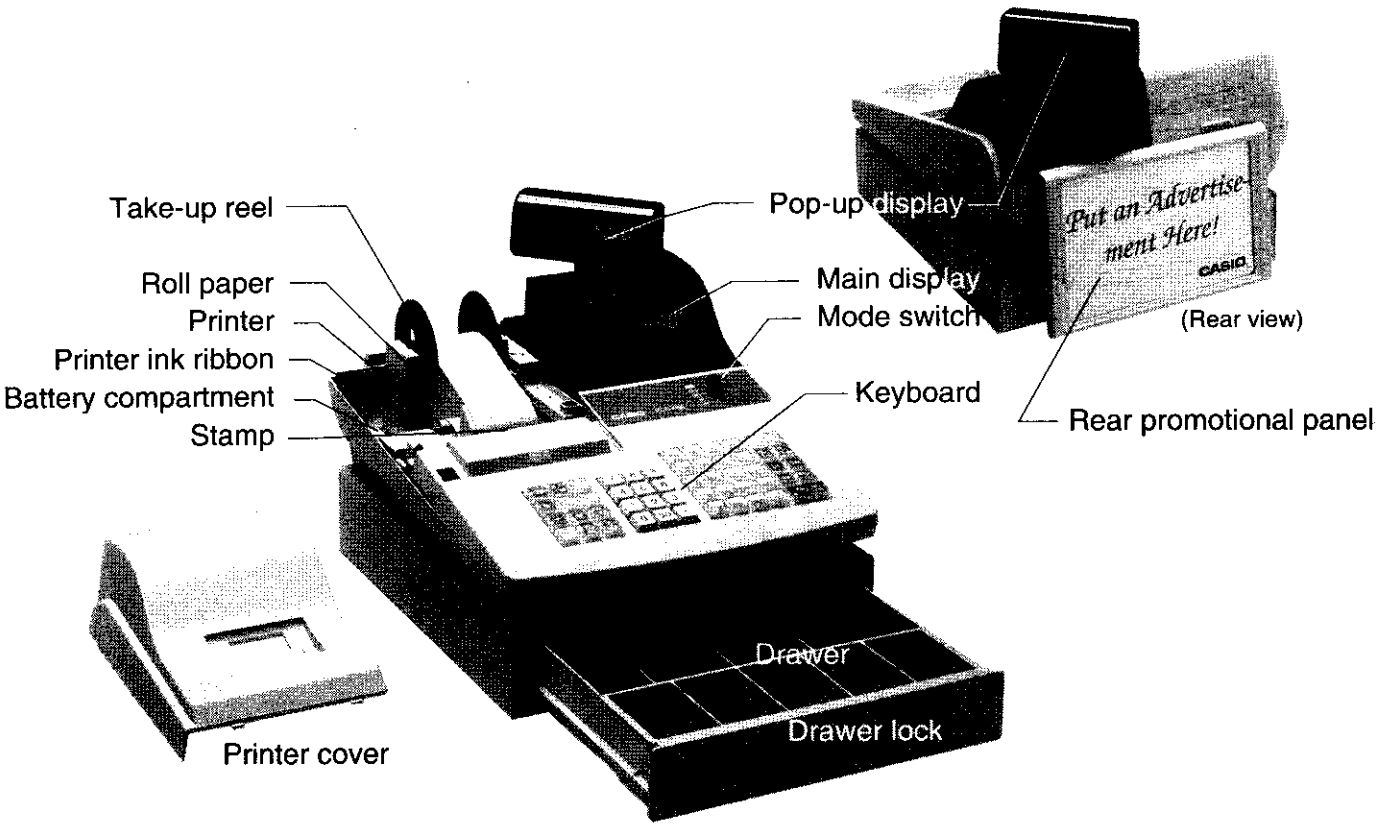


Fig. 1

This part of the manual introduces you to the cash register and provides a general explanation of its various parts.

General guide

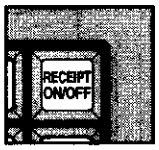


Battery compartment
Holds memory backup batteries (page 8).

Roll paper
You can use the roll paper to print receipts and a journal (page 10 ~ 13).

Printer ink ribbon
Provides ink for printing of registration details on the roll paper (page 81).

Stamp
The stamp is printed automatically at the top of each receipt (page 28, 81).

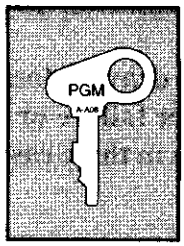
Receipt On/Off key


When you are using the printer for receipt printer, you can use this key (in the **REG** and **RF** modes only) to turn the printer on and off. If a customer asks for a receipt while receipt printing is turned off by this key, you can issue a post-finalization receipt (page 55).

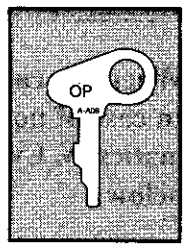
Note: Instead of the receipt on/off switch, receipt issuance is controlled by this key.

Mode key

There are two types of mode keys: the program key (marked "PGM") and the operator key (marked "OP").
The program key can be used to set the mode switch to any positions, while the operator key can select the **REG, CAL** and **OFF** positions only.



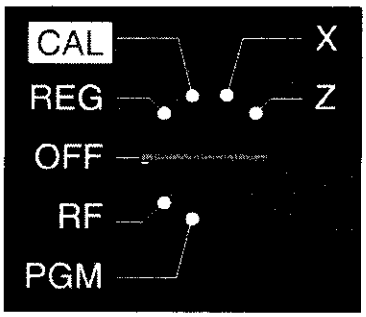
Program key



Operator key

Mode switch

Use the mode keys to change the position of the mode switch and select the mode you want to use.



Mode Switch	Mode Name	Description
Z	RESET	Reads sales data in memory and clears the data.
X	READ	Reads sales data in memory without clearing the data.
CAL	CALCULATOR	Use this mode for calculator.
REG	REGISTER	Use this mode for normal registration.
OFF	POWER OFF	Cash register power switched off.
RF	REFUND	Use this mode to register refund transactions.
PGM	PROGRAM	Use this mode for cash register programming.

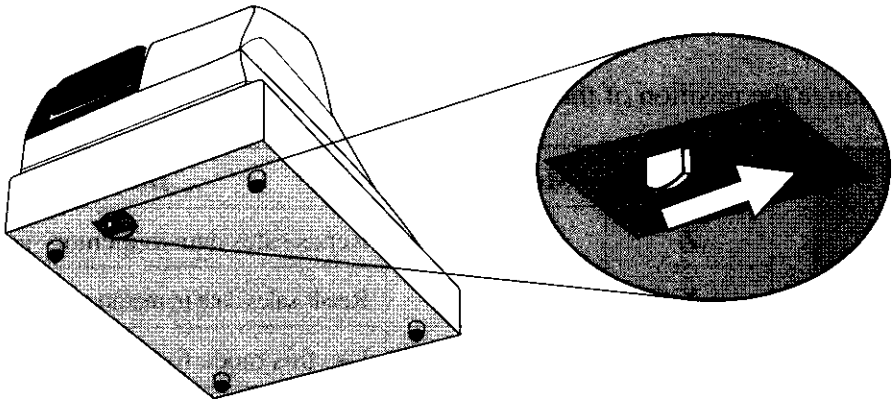
Drawer

The drawer opens automatically whenever you finalize a registration and whenever you issue a **READ** or **RESET** report. The drawer will not open if it is locked with the drawer key.

Drawer lock

Use the drawer key to lock and unlock the drawer.

When the cash drawer does not open!
In case of power failure or the machine is in malfunction, the cash drawer does not open automatically. Even in these cases, you can open the cash drawer by pulling drawer release lever (see below).



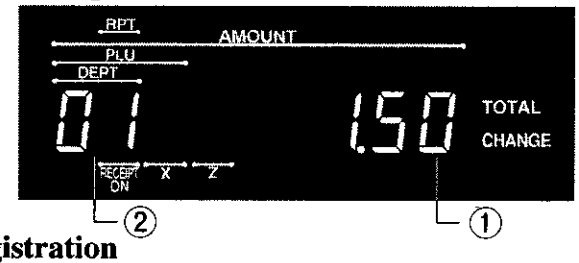
Important!

The drawer will not open, if it is locked with a drawer lock key.

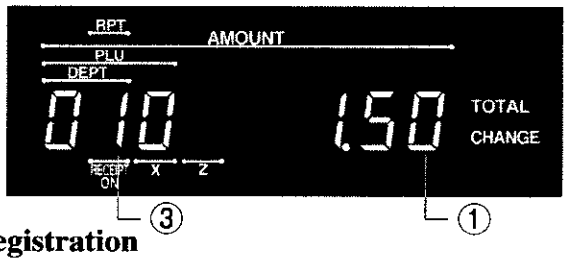
Displays

Main Display

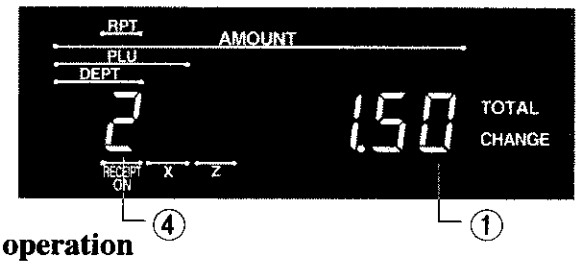
Department registration



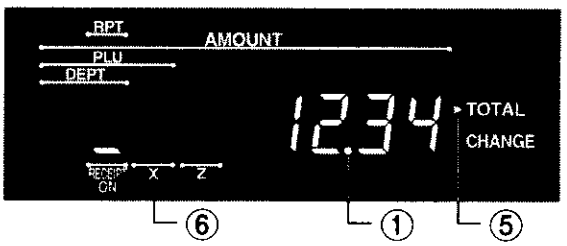
PLU registration



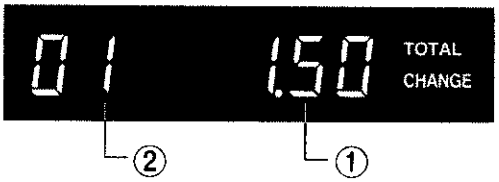
Repeat registration

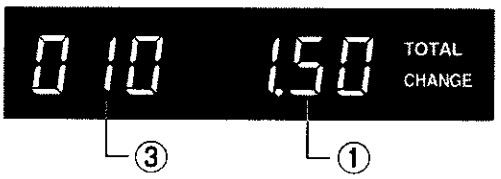


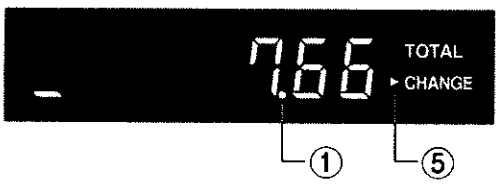
Totalize operation



Pop-up Display







①Amount/Quantity
This part of the display shows monetary amounts. It also can be used to show the current date and time.

②Department Number
When you press a department key to register a unit price, the corresponding department number (01 ~ 40) appears here.

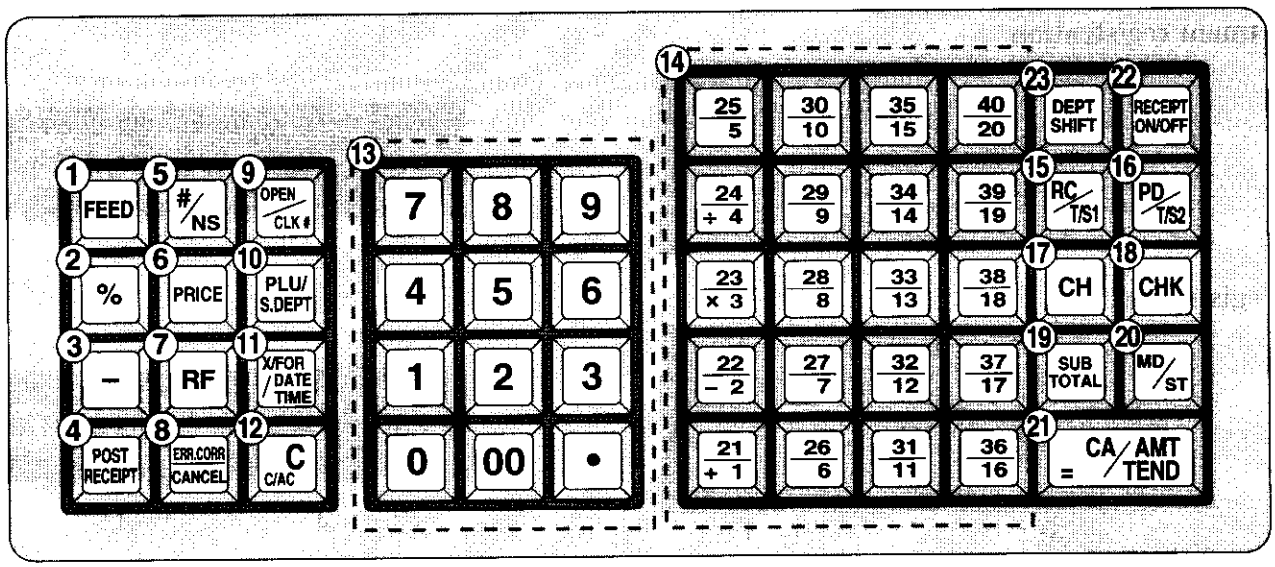
③PLU (Sub-Department) Number
When you register a PLU (Sub-Department) item, the corresponding PLU (Sub-Department) number appears here.

④Number of Repeats
Anytime you perform a repeat registration (page 32), the number of repeats appears here.
Note that only one digit is displayed for the number of repeats. This means that a "5" could mean 5, 15 or even 25 repeats.

⑤Total/Change Indicators
When the TOTAL indicator (upper segment) is lit, the displayed value is monetary total or subtotal amount. When the CHANGE indicator (lower segment) is lit, the displayed value is the change due.

⑥Receipt ON/OFF, X, Z indicators (Lowest segment)
Receipt ON/OFF: When the register issues receipts, this indicator is lit. (REG/RF mode only)
X: Indicates X mode
Z: Indicates Z mode

Keyboard



Register Mode

① **Paper Feed key** [FEED]
Hold this key down to feed paper from the printer.

② **Percent key** [%]
Use this key to register premiums or discounts.
This key can be changed to Manual tax key.
Manual tax key: Use this key to register manually entered tax amounts (refer to page 67).

③ **Minus key** [−]
Use this key to input values for subtraction.

④ **Post Receipt key** [POST RECEIPT]
Press this key to produce a post-finalization receipt.

⑤ **Non-add/No sale key** [#/NS]
Press this key to open the drawer without registering anything. To print reference number (to identify a personal check, credit card, etc.) during a transaction, press this key after some numerical entries.

⑥ **Price key** [PRICE]
Use this key to register unit prices for sub-department.

⑦ **Refund key** [RF]
Use this key to input refund amounts and void certain entries.

⑧ **Error Correct/Cancel key** [ERR.CORR CANCEL]
Use this key to correct registration errors and to cancel registration of entire transactions.

⑨ **Open/Clerk number key** [OPEN/CLK#]
It is necessary to select one of these functions.
Open key: Press this key to temporarily release a limitation on the number of digits that can be input for a unit price.
Clerk number key: Use this key to sign clerk on and off the register.

⑩ **PLU/Sub-department key** [PLU/S.DEPT]
Use this key to input PLU (sub-department) numbers.

⑪ **Multiplication/For/Date/Time key** [X/FOR/DATE/TIME]
Use this key to input a quantity for a multiplication operation and registration of split sales of packaged items. Between transactions, this key displays the current time and date.

⑫ **Clear key** [C/AC]
Use this key to clear an entry that has not yet been registered.

⑬ **Ten key pad** [0], [1] ~ [9], [00], [•]
Use these keys to input numbers.

⑭ **Department keys** [21/+1], [22/−2] ~ [40/20]
Use these keys to register items to departments.

⑮ **Received on Account/Tax Status Shift 1 key** [RC/TS1]
Received on Account: Press this key following a numeric entry to register money received for non-sale transactions.
Tax Shift 1: Press this key without a numeric entry to change the Taxable 1 status of the next item.

⑯ **Paid Out/Tax Status Shift 2 key** [PO/TS2]
Paid Out: Press this key following a numeric entry to register money paid out from the drawer.
Tax Shift 2: Press this key without a numeric entry to change the Taxable 2 status of the next item.

⑰ **Charge key** [CH]
Use this key to register a charge sale.

⑱ **Check key** [CHK]
Use this key to register a check tender.

⑲ **Subtotal key** [SUB TOTAL]
Press this key to display and print the current subtotal (includes add-on tax) amount.

⑳ **Merchandise Subtotal key** [MD/ST]
Press this key to display and print the current item price subtotal (excludes add-on tax) amount.

㉑ **Cash Amount Tender key** [CA/AMT TEND]
Press this key to register a cash sale.

㉒ **Receipt On/Off key** [RECEIPT ON/OFF]
Press this key twice to change the status "receipt issue" or "no receipt". This key is only effective when the " use printer for receipt printer" in the printer control program is selected. In case of "receipt is issue", the "RECEIPT ON" indicator is lit.

㉓ **Department Shift key** [DEPT SHIFT]
Press this key to shift the department key number from 1 through 20 to 21 through 40 as follows.

[21 +1]	⇨ Dept. 1	[DEPT SHIFT] [21 +1]	⇨ Dept. 21
[22 -2]	⇨ Dept. 2	[DEPT SHIFT] [22 -2]	⇨ Dept. 22
[23 ×3]	⇨ Dept. 3	[DEPT SHIFT] [23 ×3]	⇨ Dept. 23
⋮		⋮	
[40 20]	⇨ Dept. 20	[DEPT SHIFT] [40 20]	⇨ Dept. 40

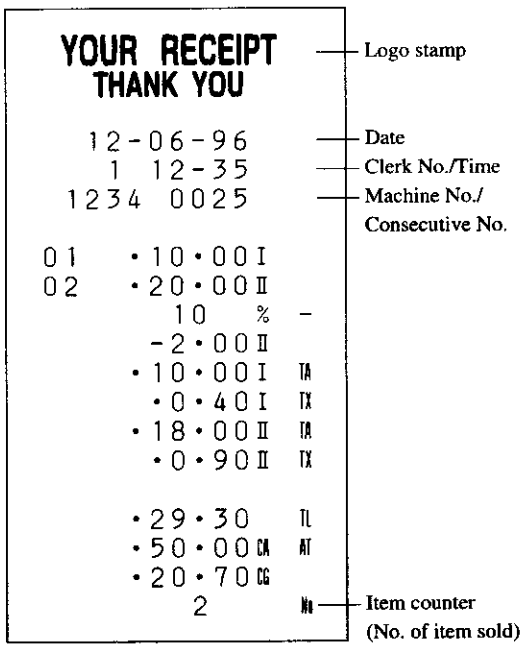
Calculator Mode

② **Percent key** [%]
⑤ **Drawer open key** [#/NS]
⑩ **Memory recall key** [PLU/S.DEPT]
⑫ **Clear key** [C]
⑬ **Ten key pad** [0], [1], ~ [9], [00], [.]
⑭ **Arithmetic operation keys** [+1], [-2], [×3] **and** [÷4]
㉑ **Equal key** [CA/AMT TEND]

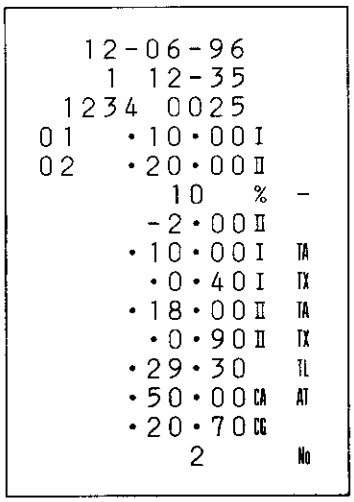
How to read the printouts

- The journal and receipts are records of all transactions and operations.
- The contents printed on receipts and journal are identical, except the date printing line. (The date line is printed on receipts and reports.) And also a logo stamp is automatically printed on each receipt.
- You can choose the journal skip function (page 56).
  If the journal skip function is selected, the cash register will print the total amount of each transaction, and the details of premium, discount and reduction operations only, without printing department and PLU item registrations on the journal.
- The following items can be skipped on receipts and journal.
  - Time
  - Consecutive number
  - Taxable status
  - Taxable amount

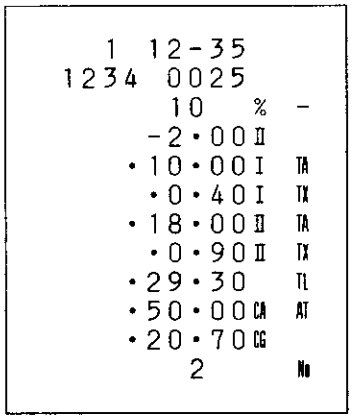
Receipt Sample



Journal Sample (Item lines Included)



Journal Sample (Item lines Skipped)

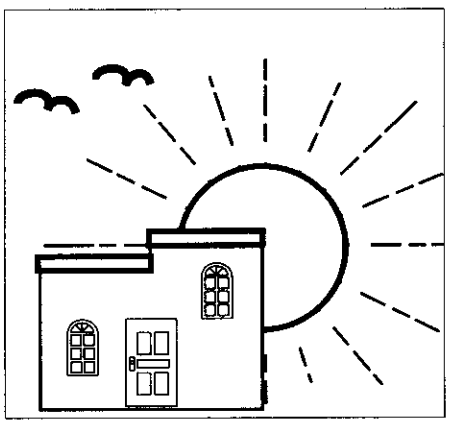


In the operation examples contained in this manual, the print samples are what would be produced if the roll paper is being used for receipts. They are not actual size. Actual receipts are 58 mm wide. Also, all sample receipts and journals are printout images.

How to use your cash register

The following describes the general procedure you should use in order to get the most out of your cash register.

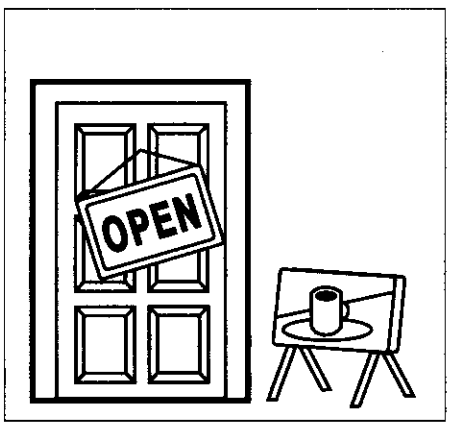
BEFORE business hours...



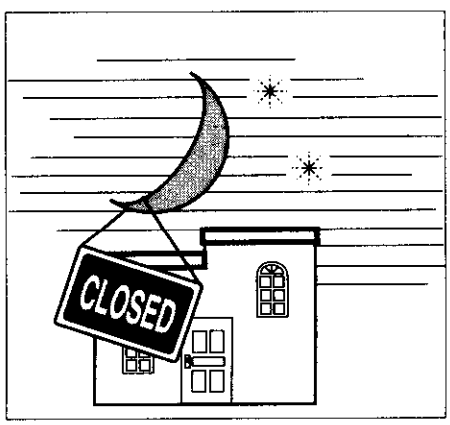
- Check to make sure that the cash register is plugged in securely. Page 10
- Check to make sure there is enough paper left on the roll. Page 11
- Read the financial totals to confirm that they are all zero. Page 72
- Check the date and time. Page 30

DURING business hours...

- Register transactions. Page 31
- Periodically read totals. Page 71



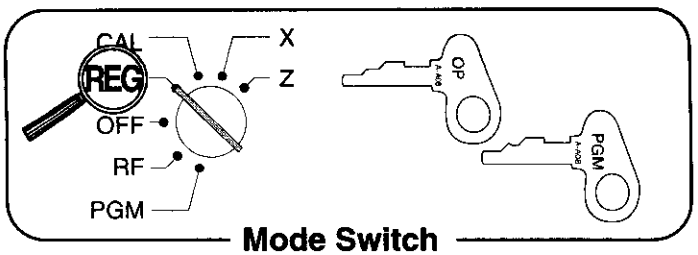
AFTER business hours...



- Reset the daily totals. Page 53
- Remove the journal. Page 82
- Empty the cash drawer and leave it open. Page 23
- Take the cash and journal to the office.

Displaying the time and date

You can show the time or date on the display of the cash register whenever there is no registration being made.



Mode Switch

To display and clear the time

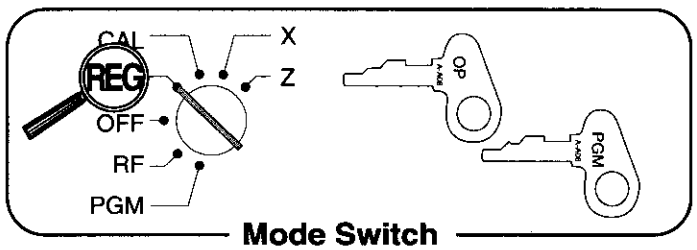
OPERATION	DISPLAY	
[X/FOR /DATE /TIME]	08-31	
Time appears on the display.	Hour Minute	(24-hour system)
[C CAC]	_ 0.00	
Clears the time display.	Receipt on indicator	

To display and clear the date

OPERATION	DISPLAY	
[X/FOR /DATE /TIME]	08-31	(Time displayed first)
[X/FOR /DATE /TIME]	12-06-96	
Date appears on the display.	Month Day Year	
[C CAC]	_ 0.00	
Clears the date display.	Receipt on indicator	

Preparing coins for change

You can use the following procedure to open the drawer without registering an item. This operation must be performed out of a sale.
(You can use the [RC] key instead of the [#/NS] key. See page 49.)



Mode Switch

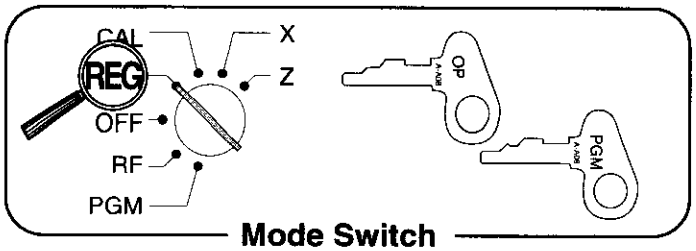
Opening the drawer without a sale

OPERATION	RECEIPT
[#/NS]	12-06-96 08-35 0001 . . . . . # . . . . .

Preparing and using department keys

Registering department keys

The following examples show how you can use the department keys in various types of registrations.



Single item sale

Example 1

Item	Unit Price	$1.00
	Quantity	1
	Dept.	1
	Taxable	No
Payment	Cash	$1.00

OPERATION

1 00
Unit price

+1
Department

CA/AMT =/TEND

RECEIPT

```
12-06-96
08-40
0002
01      •1•00
        •1•00CA
```

Date
Time
Consecutive No.
Department No./ Unit price

Example 2

Item	Unit Price	$20.00
	Quantity	1
	Dept.	21
	Taxable	No
Payment	Cash	$20.00

OPERATION

2 0 00 DEPT SHIFT 21 +1
Designating from 21 to 40 department, press DEPT SHIFT first.

CA/AMT =/TEND

RECEIPT

```
12-06-96
08-50
0003
21      •20•00
        •20•00CA
```

Example 3

Item	Unit Price	$3.00
	Quantity	1
	Dept.	1
	Taxable	1
Payment	Cash	$3.12

OPERATION

RC/TS1 3 00 +1
Shifting non-taxable dept. to taxable by depressing RC/TS1, RC/TS2 before numerics.

CA/AMT =/TEND

RECEIPT

```
12-06-96
09-00
0004
01      •3•00I
        •3•00I TA
        •0•12I TX
        •3•12CA
```

Tax status
Taxable Amount 1
Tax 1

Repeat

Item	Unit Price	$1.50
	Quantity	3
	Dept.	1
	Taxable	No
Payment	Cash	$10.00

OPERATION

1 5 0 +1

+1

+1

SUB TOTAL

1 0 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
   09-10
    0005

01     •1•50
01     •1•50   — Repeat
01     •1•50   — Repeat

       •4•50   TL
      •10•00 CA AT
       •5•50 CG
```

Multiplication

Item	Unit Price	$1.00
	Quantity	12.5
	Dept.	1
	Taxable	No
Payment	Cash	$20.00

OPERATION

1 2 • 5 X/FOR DATE/TIME

Quantity
(4-digit integer/2-digit decimal)

1 00 +1

SUB TOTAL

2 0 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
   09-20
    0006

    12•5  X
     •1•00   @  — Unit Price
01   •12•50     — Quantity

     •12•50   TL
     •20•00 CA AT
      •7•50 CG
```

Split sales of packaged items

Item	Unit Price	4 for $10.00
	Quantity	3
	Dept.	1
	Taxable	No
Payment	Cash	$10.00

OPERATION

3 X/FOR DATE/TIME

Quantity being purchased
(4-digit integer/2-digit decimal)

4 X/FOR DATE/TIME

Package quantity
(4-digit integer/2-digit decimal)

1 0 00 +1

Package price

SUB TOTAL

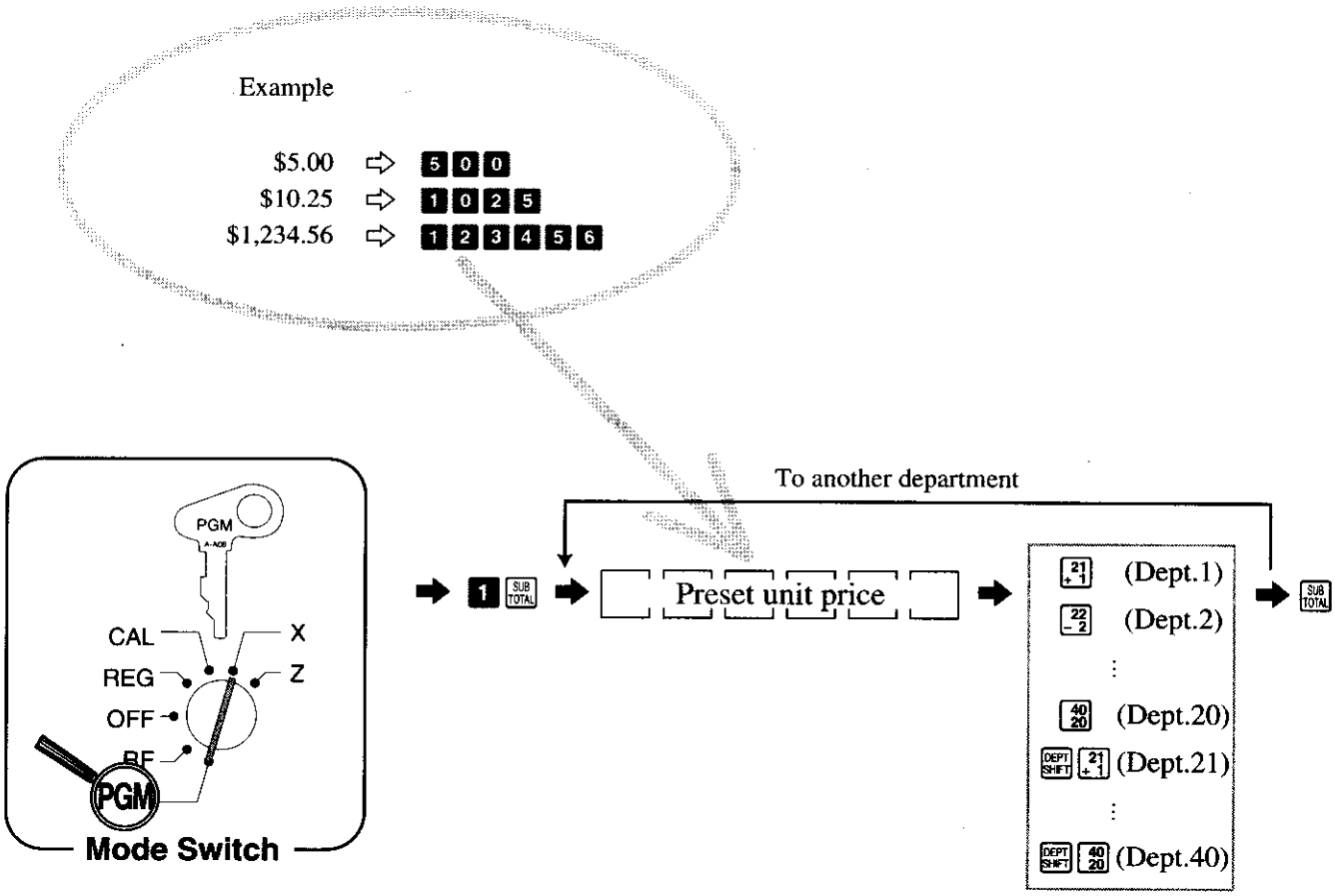
1 0 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
   09-30
    0007

       3  X      — Quantity
       4         — Package quantity
     •10•00   @  — Unit Price
01    •7•50

      •7•50   TL
     •10•00 CA AT
      •2•50 CG
```

Programming department keys

To program a unit price for each department

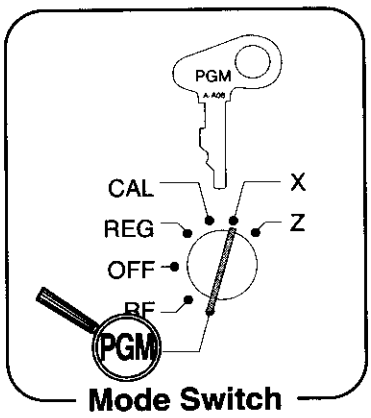


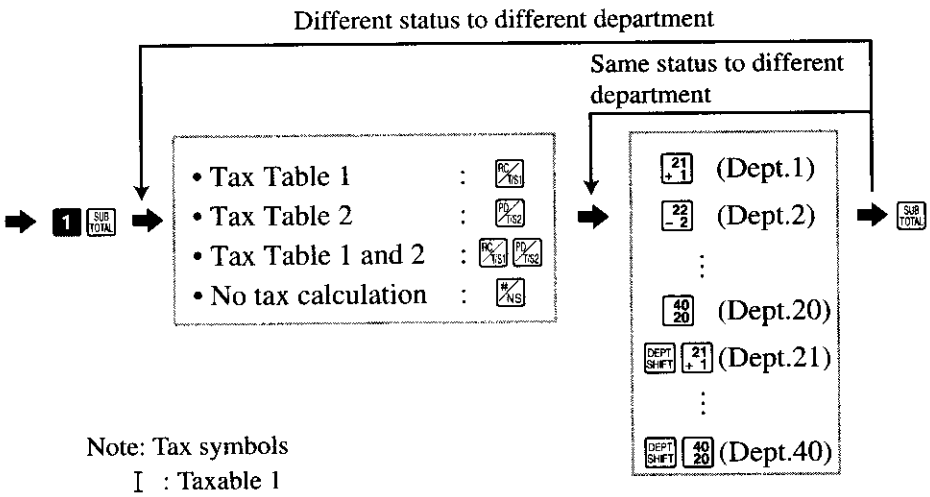
To program the tax calculation status for each department

Tax calculation status

This specification defines which tax table should be used for automatic tax calculation.
See page 16 for information on setting up the tax tables.

Programming procedure





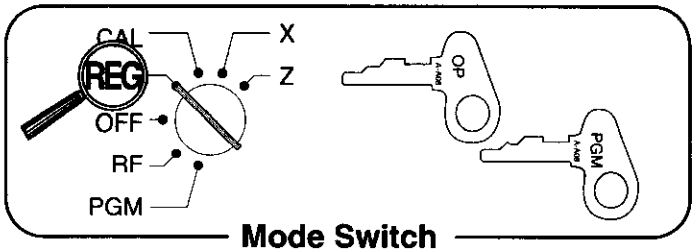
Note: Tax symbols

Ⅰ : Taxable 1
Ⅱ : Taxable 2
Ⅲ : Taxable 1 and 2

Tax status for the departments are initialized as follows:

Department 1 ~ 10: Tax table 1 and 2,
Department 11 ~ 40: No tax calculation.

Registering department keys by programming data



Mode Switch

Preset price

Item	Unit Price	$(\$1.00)_{preset}$
	Quantity	1
	Dept.	2
	Taxable	No
Payment	Cash	$1.00

OPERATION

[_2] [CA/AMT =/TEND]

RECEIPT

```
12-06-96
   09-40
    0008
02     •1•00
       •1•00CA
```

Date
Time
Consecutive No.
Department No./ Unit price

Preset tax status

Item 1	Unit Price	$(\$2.00)_{preset}$
	Quantity	5
	Dept.	3
	Taxable	$(1)_{preset}$
Item 2	Unit Price	$(\$2.00)_{preset}$
	Quantity	1
	Dept.	3
	Taxable	No
Payment	Cash	$20.00

OPERATION

[5] [X/FOR/DATE/TIME]
[×3]
[RC/TIS1] [×3]
[SUB TOTAL]
[2] [0] [00] [CA/AMT =/TEND]

RECEIPT

```
12-06-96
   09-50
    0009
         5   X
       •2•00    @
03   •10•00I
03     •2•00
     •10•00I   TA
      •0•40I   TX
     •12•40    TL
     •20•00CA  AT
      •7•60CG
```

Tax status
Taxable amount 1
Tax 1

Preparing and using PLUs

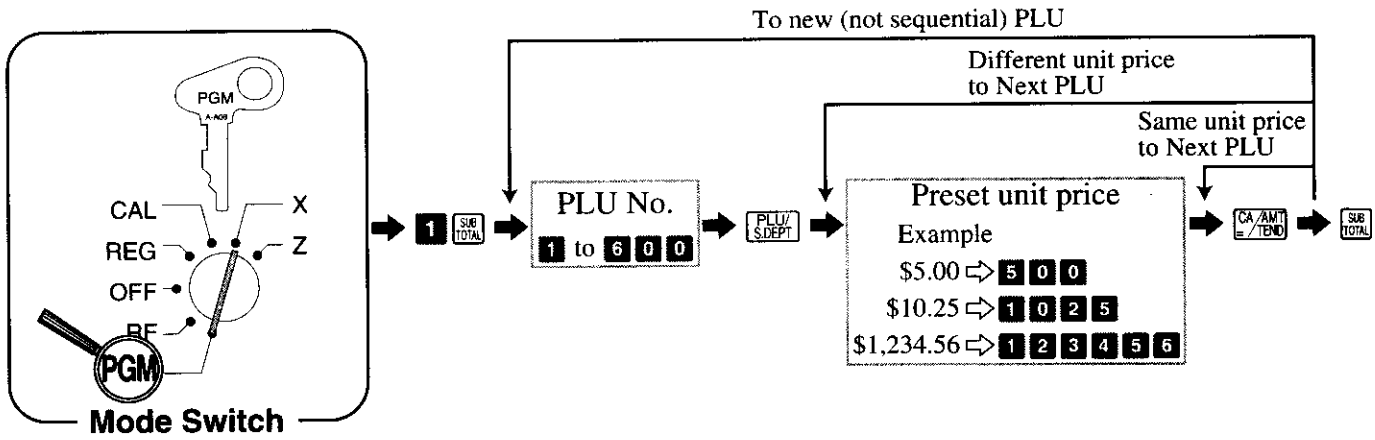
This section describes how to prepare and use PLUs.

CAUTION:

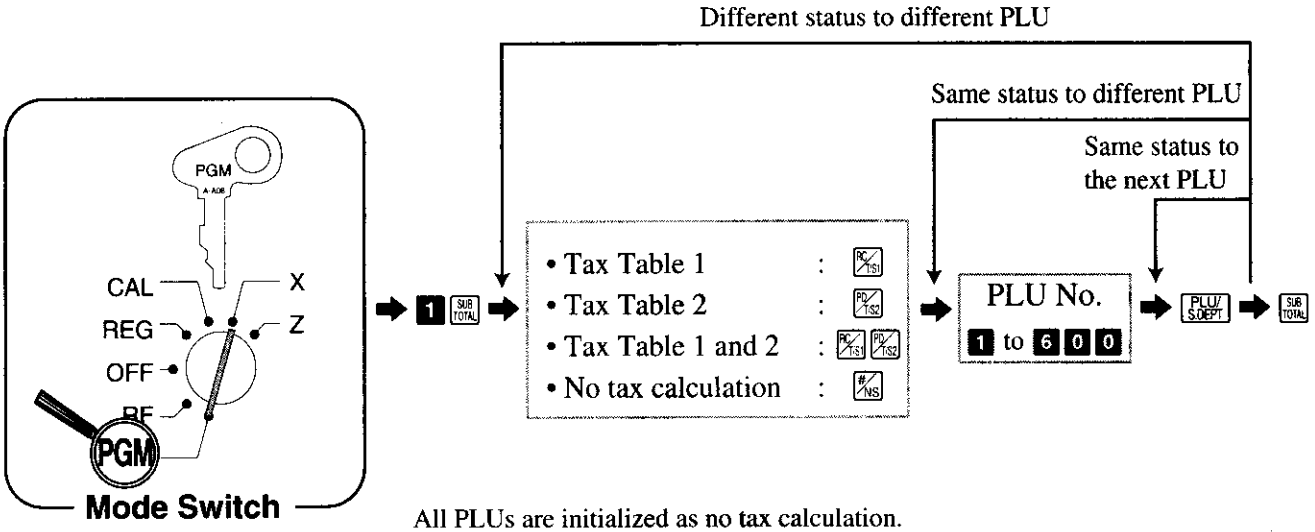
Before you use PLUs, you should first tell the cash register how it should handle the registration.

Programming PLUs

To program a unit price for each PLU



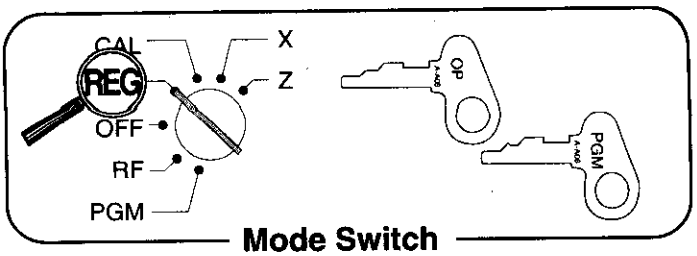
To program tax calculation status for each PLU



All PLUs are initialized as no tax calculation.

Registering PLUs

The following examples show how you can use PLUs in various types of registrations.
Registering by Sub-department, see the "Convenient Operations and Setups" on page 61.



Mode Switch

PLU single-item-sale

Item	Unit Price	($2.50)$_{preset}$
	Quantity	1
	PLU	14
	Taxable	(2)$_{preset}$
Payment	Cash	$3.00

OPERATION

1 4 PLU code

PLU/S.DEPT

SUB TOTAL

3 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
    10-00
     0010

014    •2•50 II      PLU No./Unit price

       •2•50 II  TA
       •0•13 II  TX

       •2•63     TL
       •3•00 CA  AT
       •0•37 CG
```

PLU repeat

Item	Unit Price	($2.50)$_{preset}$
	Quantity	3
	PLU	14
	Taxable	(2)$_{preset}$
Payment	Cash	$10.00

OPERATION

1 4 PLU/S.DEPT

PLU/S.DEPT

PLU/S.DEPT

SUB TOTAL

1 0 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
    10-10
     0011

014    •2•50 II
014    •2•50 II
014    •2•50 II
       •7•50 II  TA
       •0•38 II  TX

       •7•88     TL
      •10•00 CA  AT
       •2•22 CG
```

PLU multiplication

Item	Unit Price	($1.20)$_{preset}$
	Quantity	15
	PLU	2
	Taxable	(2)$_{preset}$
Payment	Cash	$20.00

OPERATION

1 5 %/RATE/DATE/TIME

Quantity
(4-digit integer/2-digit decimal)

2 PLU/S.DEPT

SUB TOTAL

2 0 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
    10-20
     0012

       15  X
       •1•20     @
002    •18•00 II
       •18•00 II  TA
        •0•90 II  TX

       •18•90     TL
       •20•00 CA  AT
        •1•10 CG
```

PLU split sales of packaged item

Item	Unit Price	$(5 for \$20.00)_{preset}$
	Quantity	3
	PLU	28
	Taxable	$(2)_{preset}$
Payment	Cash	$15.00

OPERATION

[3] [X/FOR/DATE/TIME]
Quantity being purchased
(4-digit integer/2-digit decimal)

[5] [X/FOR/DATE/TIME]
Package quantity
(4-digit integer/2-digit decimal)

[2] [8] [PLU/S.DEPT]

[SUB TOTAL]

[1] [5] [00] [CA/AMT/TEND]

RECEIPT

```
12-06-96
   10-30
    0013

       3 X
       5
    •20•00    @
028 •12•00 II

    •12•00 II  TA
     •0•60 II  TX

    •12•60     TL
    •15•00 CA  AT
     •2•40 CG
```

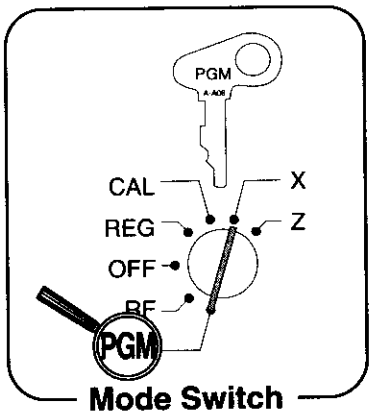
Preparing and using discounts

This section describes how to prepare and register discount.

Programming discounts

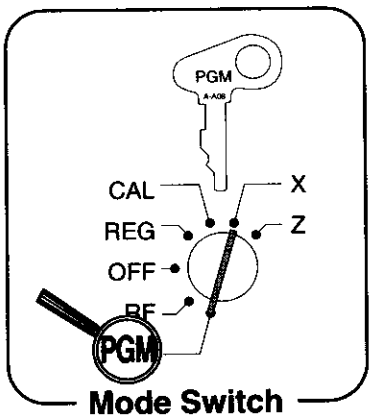
You can use the [%] key to register discounts (percentage decreases). The more detailed informations about the discount (and premium) are described in the "Registering discounts and premiums" section in the "Convenient Operations and setups" on page 65.

To program a rate to the [%] key



➡ [1] [SUB TOTAL] ➡ [Preset rate] ➡ [%] ➡ [SUB TOTAL]

Example
10 % ⇨ [1] [0]
5.5% ⇨ [5] [.] [5] [0]
12.34% ⇨ [1] [2] [.] [3] [4]



➡ [1] [SUB TOTAL] ➡

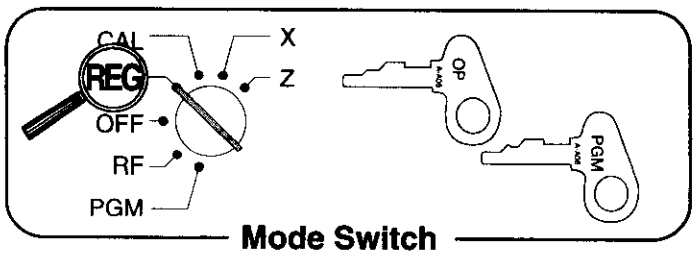
- Tax Table 1 : [RC/TS1]
- Tax Table 2 : [PO/TS2]
- Tax Table 1 and 2 : [RC/TS1] [PO/TS2]
- No tax calculation : [#/NS]

➡ [%] ➡ [SUB TOTAL]

Tax status for the [%] key is initialized as tax table 1 and 2.

Registering discounts

The following example shows how you can use the [%] key in various types of registration.



Discount for items and subtotals

Item 1	Unit Price	$5.00
	Quantity	1
	Dept.	1
	Taxable	$(1)_{preset}$
Item 2	Unit Price	$(\$10.00)_{preset}$
	Quantity	1
	PLU	16
	Taxable	$(2)_{preset}$
Discount	Rate	$(5\%)_{preset}$
Subtotal discount	Rate	3.5%
	Taxable	1 and 2
Payment	Cash	$15.00

OPERATION

5 00 [+1]

1 6 [PLU/S.DEPT]

[%]

Applies the preset discount rate to the last item registered.

[MD/ST]

For this operation, hit this key instead of [SUB TOTAL].

3 • 5 [%]

The input value takes priority of the preset value.

[SUB TOTAL]

1 5 00 [CA/AMT =/TEND]

RECEIPT

```
12-06-96
    10-40
     0014

01     •5•00I
016  •10•00II
          5 %   -
       -0•50II
      •14•50SI
       3•5 %   -
       -0•51III
       •4•82I  TA
       •0•19I  TX
       •9•17II TA
       •0•46II TX

      •14•64   TL
      •15•00CA AT
       •0•36CG
```

- You can manually input rates up to 4 digits long (0.01% to 99.99%).

Taxable status of the [%] key

- Whenever you perform a discount operation on the last item registered, the tax calculation for discount amount is performed in accordance with the tax status programmed for that item.
- Whenever you perform a discount operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the [%] key.

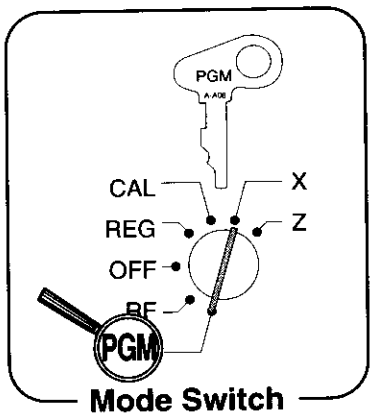
Preparing and using reductions

This section describes how to prepare and register reductions.

Programming for reductions

You can use the ⊖ key to reduce single items or subtotal amounts. The following procedure lets you program the tax calculation method for the ⊖ key.

To program tax calculation status



➡ 1 SUB TOTAL ➡

- Tax Table 1 : RC TS1
- Tax Table 2 : PO TS2
- Tax Table 1 and 2 : RC TS1 PO TS2
- No tax calculation : #/NS

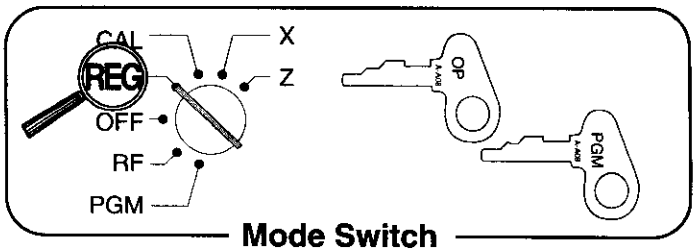
➡ ⊖ ➡ SUB TOTAL

Tax status for the ⊖ key is initialized as no tax calculation.

Taxable status of the ⊖ key
The tax calculation for the reduction amount is performed in accordance with the tax status programmed for the ⊖ key, regardless of whether the reduction is performed on the last item registered or a subtotal amount.

Registering reductions

The following examples show how you can use the ⊟ key in various types of registration.



Mode Switch

Reduction for items

Item 1	Unit Price	$5.00
	Quantity	1
	Dept.	1
	Taxable	$(1)_{preset}$
Reduction	Amount	$0.25
Item 2	Unit Price	$(\$6.00)_{preset}$
	Quantity	1
	PLU	45
	Taxable	$(1)_{preset}$
Reduction	Amount	$0.50
Payment	Cash	$11.00

OPERATION

5 00 +1

2 5 −

Reduces the last amount registered by the value input.

4 5 PLU/S.DEPT

5 0 −

SUB TOTAL

1 1 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
    10-50
     0015

01      •5•00 I
       -0•25 I
045    •6•00 I
       -0•50 I
      •10•25 I  TA
       •0•41 I  TX

      •10•66    TL
      •11•00 CA AT
       •0•34 CG
```

- You can manually input reduction values up to 7 digits long.
- The amount you input for the reduction is neither subtracted from the department nor PLU totalizer.

Reduction for subtotal

Item 1	Unit Price	$3.00
	Quantity	1
	Dept.	1
	Taxable	$(1)_{preset}$
Item 2	Unit Price	$4.00
	Quantity	1
	Dept.	2
	Taxable	$(2)_{preset}$
Subtotal reduction	Amount	$0.75
	Taxable	$(No)_{preset}$
Payment	Cash	$7.00

OPERATION

3 00 +1

4 00 −2

SUB TOTAL

7 5 −

Reduces the subtotal by the value input here.

SUB TOTAL

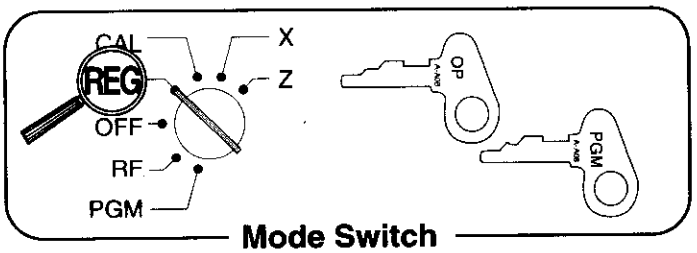
7 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
    11-00
     0016

01      •3•00 I
02      •4•00 II
       -0•75
      •3•00 I   TA
      •0•12 I   TX
      •4•00 II  TA
      •0•20 II  TX

      •6•57     TL
      •7•00 CA  AT
       •0•43 CG
```

Calculating the merchandise subtotal

Use the operation shown below to calculate the merchandise subtotal, which includes the actual cost of the merchandise only without the add-on tax.

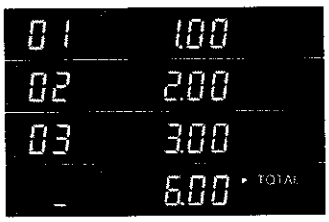


Calculation merchandise subtotal

Item 1	Unit Price	$1.00
	Quantity	1
	Dept.	1
	Taxable	$(1)_{preset}$
Item 2	Unit Price	$2.00
	Quantity	1
	Dept.	2
	Taxable	$(2)_{preset}$
Item 3	Unit Price	$3.00
	Quantity	1
	Dept.	3
	Taxable	$(1)_{preset}$
Payment	Cash	$10.00

OPERATION **DISPLAY**

1 00 +1
2 00 -2
3 00 ×3
MD/ST



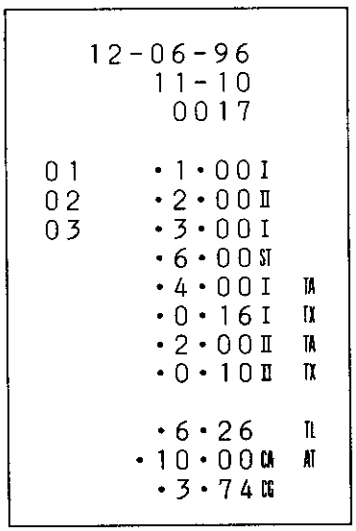
Calculates the merchandise subtotal.

SUB TOTAL

Calculates the subtotal (with add-on tax).

1 0 00 CA/AMT =/TEND

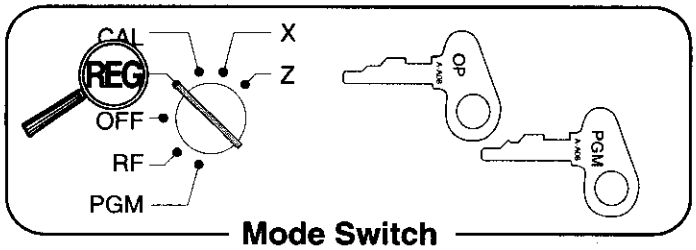
RECEIPT



- For a partial tender operation, you should press the SUB TOTAL key instead of the MD/ST key.

Shifting the taxable status of an item

By pressing "Tax Shift" key, you can shift the taxable status of an item.



Calculation merchandise subtotal

Item 1	Unit Price	$4.00
	Quantity	1
	Dept.	1
	Taxable	$(2)_{preset}$
Item 2	Unit Price	$2.00
	Quantity	1
	Dept.	2
	Taxable	**(No)→1**
Item 3	Unit Price	$6.00
	Quantity	1
	Dept.	3
	Taxable	**(1)→1, 2**
Item 4	Unit Price	$7.00
	Quantity	1
	Dept.	4
	Taxable	**(2)→No**
Payment	Cash	$20.00

OPERATION

4 00 +1

RC/TS1

2 00 -2

Pressing RC/TS1 changes the tax status from Non-taxable to Taxable 1

PD/TS2

6 00 ×3

Pressing PD/TS2 changes the tax status from Taxable 1 to Taxable 1, 2

PD/TS2

7 00 ÷4

Pressing RC/TS1 changes the tax status from Taxable 2 to Non-taxable

SUB TOTAL

2 0 00 CA/AMT/TEND

RECEIPT

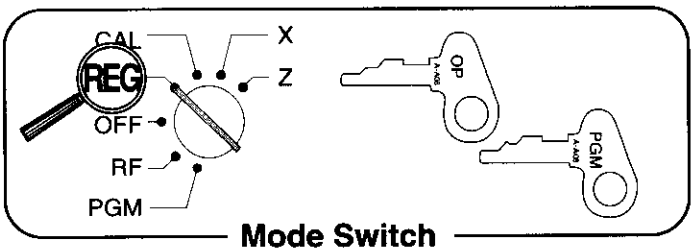
```
12-06-96
    11-20
     0018

01      • 4 • 00 II
02      • 2 • 00 I
03      • 6 • 00 III
04      • 7 • 00
        • 8 • 00 I   TA
        • 0 • 32 I   TX
      • 10 • 00 II   TA
        • 0 • 50 II  TX

      • 19 • 82      TL
      • 20 • 00 CA   AT
        • 0 • 18 CG
```


Important!

- **To change the tax status of the next item to be registered, be sure to press RC/TS1, PD/TS2 without inputting any value.**
- **If the last item registered is programmed as non-taxable, a premium/discount (% key) operation on this item is always non-taxable.**
  In this case, you cannot manually change the tax status to Taxable 1 or 2 by pressing the RC/TS1, PD/TS2 keys.

Registering charge and check payments

The following examples show how to register charges and payments by check.



Check

Item 1	Unit Price	$10.00
	Quantity	1
	Dept.	1
	Taxable	$(1)_{preset}$
Payment	Check	$20.00

OPERATION

1 0 00 +1
SUB TOTAL
2 0 00 CHK

RECEIPT

```
12-06-96
   11-30
    0019

01    ·10·00 I
      ·10·00 I  TA
       ·0·40 I  TX

      ·10·40    TL
      ·20·00    CK
       ·9·60 CG
```

Charge

Item 1	Unit Price	$15.00
	Quantity	1
	Dept.	4
	Taxable	$(2)_{preset}$
Reference	Number	123456
Payment	Charge	$15.75

OPERATION

1 5 00 ÷4
SUB TOTAL
1 2 3 4 5 6 #/NS
CH

RECEIPT

```
12-06-96
   11-40
    0020

04    ·15·00 II
      123456    #  ← Reference No.
      ·15·00 II TA
       ·0·75 II TX

      ·15·75 CH
```

Mixed tender (cash, charge and check)

Item 1	Unit Price	$55.00
	Quantity	1
	Dept.	4
	Taxable	$(2)_{preset}$
Payment	Check	$30.00
	Cash	$3.00
	Charge	$24.75

OPERATION

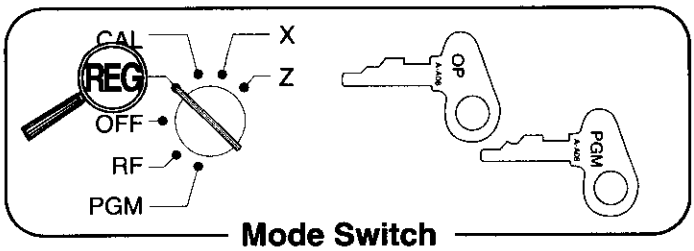
5 5 00 ÷4
SUB TOTAL
3 0 00 CHK
3 00 CA/AMT-TEND
CH

RECEIPT

```
12-06-96
   11-50
    0021

04    ·55·00 II
      ·55·00 II TA
       ·2·75 II TX

      ·57·75    TL
      ·30·00    CK
       ·3·00 CA
      ·24·75 CH
```

Registering returned goods in the REG mode

The following example shows how to use the [RF] key in the REG mode to register goods returned by customers.



Mode Switch

Item 1	Unit Price	$2.35
	Quantity	1
	Dept.	1
	Taxable	$(1)_{preset}$
Item 2	Unit Price	$2.00
	Quantity	1
	Dept.	2
	Taxable	$(2)_{preset}$
Item 3	Unit Price	$(\$1.20)_{preset}$
	Quantity	1
	PLU	1
	Taxable	$(2)_{preset}$
Item 1 Returned	Unit Price	$2.35
	Quantity	1
	Dept.	1
	Taxable	1
Item 3 Returned	Unit Price	$(\$1.20)_{preset}$
	Quantity	1
	PLU	1
	Taxable	2
Payment	Cash	$2.10

OPERATION

[2] [3] [5] [+1]

[2] [00] [_2]

[1] [PLU/S.DEPT]

[RF]

[2] [3] [5] [+1]

Pressing [RF] specifies that the next item registered is a return.

[RF]

[1] [PLU/S.DEPT]

You have to press [RF] before registering each returned item.

[SUB TOTAL]

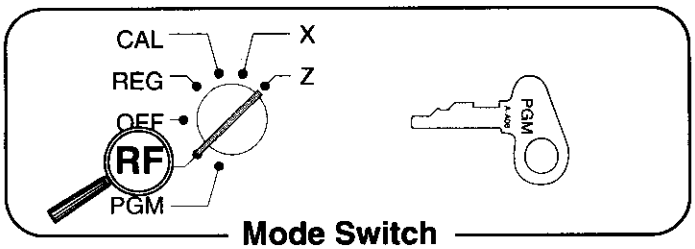
[CA/AMT =/TEND]

RECEIPT

```
      12-06-96
         12-00
          0022

01       ·2·35 I
02       ·2·00 II
001      ·1·20 II
·········          RF
01       -2·35 I
·········          RF
001      -1·20 II
         ·2·00 II  TA
         ·0·10 II  TX

         ·2·10 CA
```

Registering returned goods in the RF mode

The following examples show how to use the RF mode to register goods returned by customers.



Mode Switch

Normal refund transaction

Item 1 Returned	Unit Price	$1.50
	Quantity	2
	Dept.	1
	Taxable	1
Item 2 Returned	Unit Price	($1.20)$_{preset}$
	Quantity	6
	PLU	2
	Taxable	2
Payment	Cash	$10.68

OPERATION

1 5 0 +1
+1
6 X/FOR /DATE /TIME
2 PLU/S.DEPT
SUB TOTAL
CA/AMT =/TEND

RECEIPT

```
12-06-96
    12-10
     0023   RF

01     •1•50I
01     •1•50I
         6 X
       •1•20   @
002    •7•20II
       •3•00I  TA
       •0•12I  TX
       •7•20II TA
       •0•36II TX

       •10•68CA
```

Reduction of amounts paid on refund

Item 1 Returned	Unit Price	$4.00
	Quantity	1
	Dept.	3
	Taxable	1
Reduction	Amount	$0.15
Item 2 Returned	Unit Price	($1.20)$_{preset}$
	Quantity	1
	PLU	2
	Taxable	2
Discount	Rate	(5%)$_{preset}$
Payment	Cash	$5.21

OPERATION

4 00 ×3
1 5 −
2 PLU/S.DEPT
%
SUB TOTAL
CA/AMT =/TEND

RECEIPT

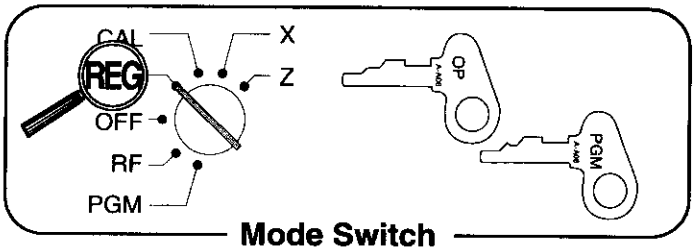
```
12-06-96
    12-20
     0024   RF

03     •4•00I
       -0•15
002    •1•20II
         5   %  -
       -0•06II
       •4•00I  TA
       •0•16I  TX
       •1•14II TA
       •0•06II TX

       •5•21CA
```

Important!

To avoid miss registrations in the RF mode, return the mode switch to the former position immediately.

Registering money received on account

The following example shows how to register money received on account. This registration must be performed out of a sale.



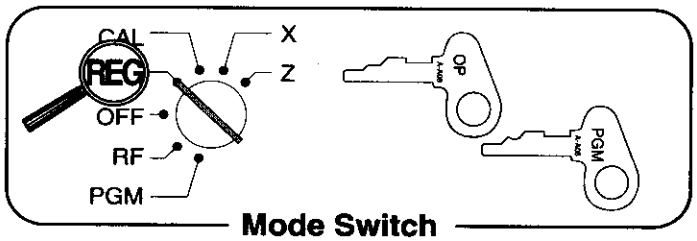
Mode Switch

OPERATION	RECEIPT
Received Amount $700.00	7 00 00 RC/TIS Amount can be up to 8 digits.

```
12-06-96
    12-30
     0025

 •700•00RC
```

Registering money paid out

The following example shows how to register money paid out from the register. This registration must be performed out of a sale.



Mode Switch

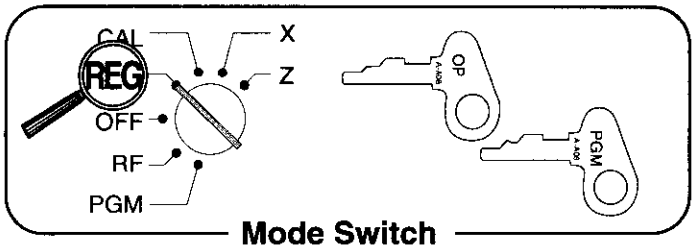
OPERATION	RECEIPT
Paid Out Amount $1.50	1 5 0 PO/TRG Amount can be up to 8 digits.

```
12-06-96
    12-40
     0026

  •1•50PO
```

Making corrections in a registration

There are three techniques you can use to make corrections in a registration.

- To correct an item that you have input but not yet registered.
- To correct the last item you have input and registered.
- To cancel all items in a transaction.



Mode Switch

To correct an item you have input but not yet registered

OPERATION **RECEIPT**

2 00 C → Correction of unit price
1 00 +1

1 2 X/FOR/DATE/TIME
C → Correction of quantity
1 1 X/FOR/DATE/TIME
2 00 _2

2
C → Correction of PLU No.
3 PLU/S.DEPT

1 5 PLU/S.DEPT
6 00
C
1 5 PLU/S.DEPT → Correction of sub-department unit price (See page 61 for registering)
Enter sub-department No. again.
1 0 00 PRICE

SUB TOTAL

1 0 00
C → Correction of partial tender amount
1 5 00 CA/AMT =/TEND

CH

```
      12-06-96
         12-50
          0027

01      •1•00I
          11  X
        •2•00    @
02    •22•00H
003    •1•30I
015   •10•00I
      •12•30I   TA
       •0•49I   TX
      •22•00H   TA
       •1•10H   TX

      •35•89    TL
      •15•00CA  AT
      •20•89CH
```

To correct an item you have input and registered

OPERATION

1 00 +1
2 00 −2
−2
ERR CORR. CANCEL
Clearance

2 PLU/S.DEPT
ERR CORR. CANCEL
5 PLU/S.DEPT
Correction of PLU No.

1 5 PLU/S.DEPT
6 00 PRICE
ERR CORR. CANCEL
1 5 PLU/S.DEPT
1 0 00 PRICE
Correction of sub-department unit price

8 X/FOR/DATE/TIME
4 00 ÷4
ERR CORR. CANCEL
6 X/FOR/DATE/TIME
4 00 ÷4
Correction of quantity

MD/ST

5 0 %
ERR CORR. CANCEL
MD/ST
5 %
Correction of discount

RF 2 00 −2
ERR CORR. CANCEL
RF 2 2 0 −2
Correction of refund item

SUB TOTAL

3 0 00 CA/AMT/TEND
ERR CORR. CANCEL
1 5 00 CA/AMT/TEND
Correction of partial tender

CH

RECEIPT

```
      12-06-96
         13-00
          0028

01       •1•00 I
02       •2•00 II
02       •2•00 II
        -2•00    VD
002      •1•20 II
        -1•20    VD
005      •1•50 I
015      •6•00 I
        -6•00    VD
015     •10•00 I
           8  X
        •4•00    @
04      •32•00 II
        -32•00   VD
           6  X
        •4•00    @
04      •24•00 II
        •38•50 ST
          50   %  -
        -19•25 III
        •19•25   VD
        •38•50 ST
           5   %  -
        -1•93 III
• • • • • • • • •   RF
02       -2•00 II
         •2•00   VD
• • • • • • • • •   RF
02       -2•20 II
        •11•87 I  TA
         •0•47 I  TX
        •22•50 II TA
         •1•13 II TX

        •35•97   TL
        •30•00 CA
        -30•00   VD
        •15•00 CA
        •20•97 CH
```

To cancel all items in a transaction

OPERATION	RECEIPT

1 00 +1
2 00 -2
3 00 ×3
4 00 ÷4
MD/ST

Pressing the MD/ST key is necessary to cancel the transaction.

ERR CORR. CANCEL

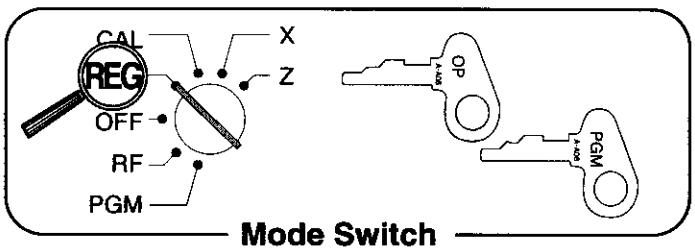
```
12-06-96
    13-10
     0029

01     ·1·00 I
02     ·2·00 II
03     ·3·00 I
04     ·4·00 II
     ·10·00 ST
·········  *  VD
```

Important!

- **Note that the number of items included in the transaction to be cancelled is limited (12~15 items), depending on the complexity of the transaction. If you try to cancel a transaction that exceeds the limit, an error occurs.**
  In case of occurrence of this error, register these items in the RF mode.
- **You can program the cash register so that this cancel operation is not allowed.**

No sale registration

You can use the following procedure to open the drawer without registering a sale. This operation must be performed out of a sale.



Mode Switch

OPERATION	RECEIPT

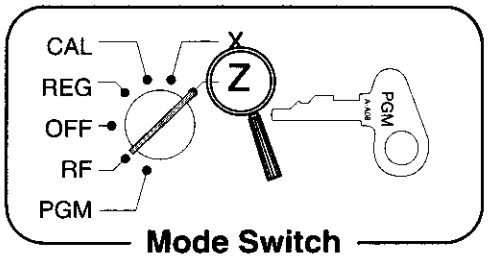
#/NS

```
12-06-96
    13-20
     0030

·········      #
```

Printing the daily sales RESET report

This report shows daily sales totals.

OPERATION **REPORT**



Mode Switch

CA/AMT =/TEND

```
    12-06-96          Date
       13-30          Time
        0031          Consecutive No.

000    0001Z          Report code/RESET counter/
                      RESET symbol
01          15
    •339•50
02          19        Department No./No. of items*1
     •62•70           Department amount*1
03          31
    •139•10
04          23
    •  •00
00          16        Non-link department No. of items
     •94•90           Non-link department amount

         253          Gross No. of items
   •1146•90    TL     Gross sales

           8    No    Subtraction count
     •3•00      -     Subtraction amount
          10    No    Premium/Discount count
     •4•62%     -     Premium/Discount amount
```

```
   •732•56 I   TA     Taxable amount 1*2
    •56•80 I   TX     Tax amount 1*2
   •409•72 II  TA     Taxable amount 2*2
    •21•55 II  TX     Tax amount 2*2

         100   No     No. of customers
  •1217•63 NT         Net amount

          81   No     Cash sales count
   •836•86 CA         Cash sales amount
          10   No     Charge sales count
   •197•17 CH         Charge sales amount
           9   No     Check sales count
   •183•60    CK     Check sales amount
           2   No     Received on Account count
    •78•00 RC         Received on Account amount
           1   No     Paid out count
     •6•80 PD         Paid out amount
          10   No     Error correction count
    •12•76    VD
           2   No     Cancellation count
  •108•52*    VD
           7   No     Refund key count*3
    •27•79    RF
           2   No     Refund mode operation count*3
     •3•74*   RF     Refund mode operation amount*3
           5   #      No sale count

   •908•06 CA   #     Cash in drawer amount
   •197•17 CH   #     Charge in drawer amount
   •183•60      CK    Check in drawer amount

    •000000           Non-resettable
001217•63             grand-sales total
```

*1 Zero totaled departments (the amount and item numbers are both zero) are not printed.

*2 Taxable amount and tax amount are printed only the corresponding tax table is programmed.

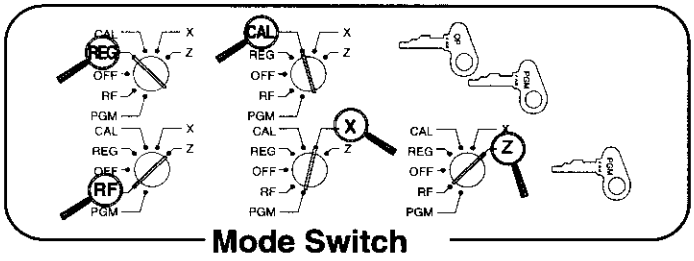
*3 These items can be skipped by programming.

This section describes more sophisticated setups and operations that you can use to suit the needs of your retail environment.

Clerk control function
Post-finalization receipt format
General printing control (receipt/journal/report)
Compulsory
Machine features

About the clerk control function

To keep track of the registrations performed by different clerks, specify the clerk control function.
In case of selecting the clerk control function, signing on operation is necessary before registering, programming or issuing reports.



Mode Switch

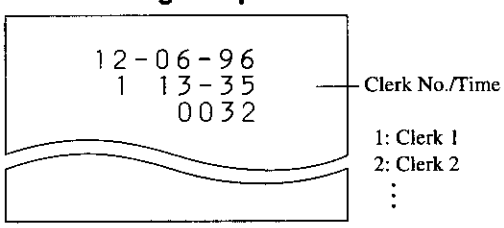
Clerk sign on

	OPERATION
Signing clerk 1 on:	1 ➡ OPEN/CLK#
Signing clerk 2 on:	2 ➡ OPEN/CLK#
⋮	
Signing clerk 15 on:	1 5 ➡ OPEN/CLK#

Important!

- **Once you select the clerk control function, the error code "E08" appears on the display whenever you try to perform a registration, a READ/RESET operation without signing on.**
- **You can choose either the clerk key function or the open key function.**
- **The signed on clerk is also identified on the receipt/journal.**

Printing Sample



Clerk sign off

	OPERATION
Signing clerk off:	0 ➡ OPEN/CLK#

- The current clerk is also signed off whenever you set the mode switch to OFF position.

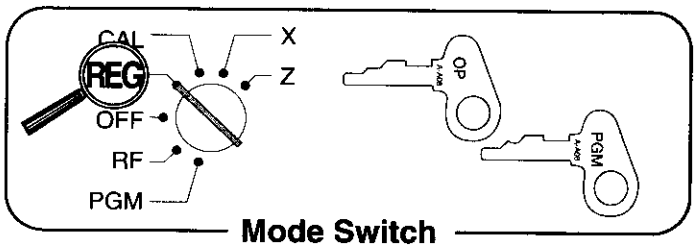
About post-finalization receipt

You can issue a receipt even if in no receipt mode.
The post-finalization receipt lets you issue a receipt after finalization of the transaction.
Note that all of the following conditions must be satisfied.

- The option "print receipts" is selected.
- The receipt issuance status must be OFF.
- The transaction must be finalized in the REG or RF mode using the [CA/AMT/TEND], [CH] or [CHK] key.

Post-finalization receipt example

You can program the cash register to print the transaction total only (below Total format) or full details (below Detailed format) on the post-finalization receipt.
Note that if the transaction contains more than 26 lines (including receipt header), the cash register prints in a Total format regardless of your programming.



Item 1	Unit Price	$10.00
	Quantity	1
	Dept.	1
	Taxable	1
Item 2	Unit Price	$20.00
	Quantity	1
	Dept.	2
	Taxable	2
Payment	Cash	$31.40

OPERATION	RECEIPT
1 0 00 [+1]	
2 0 00 [-2]	
[SUB TOTAL]	
4 0 00 [CA/AMT/TEND]	Receipt is not issued.
[POST RECEIPT]	Post-finalization receipt is issued. If "Automatic issue" is selected, no need to press the [POST RECEIPT] key.

Total format

```
12-06-96
 1  13-40
      0033

     •31•40CA
```

Detailed format

```
12-06-96
 1  13-45
      0034

01    •10•00I
02    •20•00II
      •10•00I  TA
       •0•40I  TX
      •20•00II  TA
       •1•00II  TX

      •31•40CA
```

Important!

- **You can issue only one post-finalization receipt per transaction.**

Programming general printing control

About the contents of general printing control

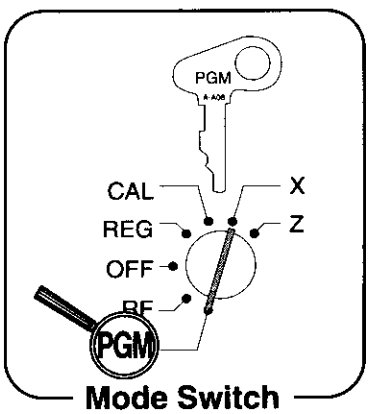
The following points are the contents of general printing control.

- Print/Not print a subtotal line on receipt/journal whenever the [SUB TOTAL] key is pressed.
- Feed/Non feed receipt/journal one line before finalization.
- Print/Skip the date on journal.
- Print/Skip item lines on journal. (JOURNAL SKIP)
- Print/Skip taxable amount subtotal of each transaction.
- Print/Skip taxable status symbols on receipt/journal.
- Print/Skip item counter (No. of item sold) line.
- Print/Skip the current time on receipt/journal.
- Print/Skip the consecutive number on receipt/journal in REG/RF modes.
- Print receipt/Print journal (If use 2-ply paper, select "Print receipt".)
- Issue post receipt by Finalize key (automatic issue)/by Post receipt key (manual issue).
- Detail format/Total format in the post receipt.

Programming procedure

default

Print/Non print a subtotal line whenever the key is pressed.	a	**Non print = 0** Print = 1	□ (a+b+c)
Feed/Non feed one line before finalization.	b	**Feed = 0** Non feed = 2	
Print/Skip the date. (effective, if "Print journal" is selected)	c	**Skip = 0** Print = 4	
Print/Skip item lines. (effective, if "Print journal" is selected)	d	**Print = 0** Skip = 1	□ (d+e+f)
Print/Skip taxable amount subtotal of each transaction.	e	**Print = 0** Skip = 2	
Print/Skip taxable status symbols.	f	**Print = 0** Skip = 4	
Print/Skip item counter line.	g	**Skip = 0** Print = 1	□ (g+h+i)
Print/Skip the current time.	h	**Print = 0** Skip = 2	
Print/Skip the consecutive number.	i	**Print = 0** Skip = 4	
Print receipt/Print journal.	j	**Receipt = 0** Journal = 1	□ (j+k+l)
Issue post receipt by Finalize key (automatic issue)/ Post receipt key (manual issue)	k	**Manual = 0** Automatic = 2	
Detail format/Total format in the post receipt.	l	**Detail = 0** Total = 4	



→ 3 [SUB TOTAL] → 0 5 2 2 [SUB TOTAL] → □ □ □ □ → [CA/AMT TEND] → [SUB TOTAL]

Programming compulsory and clerk control function

About compulsory, clerk control function...

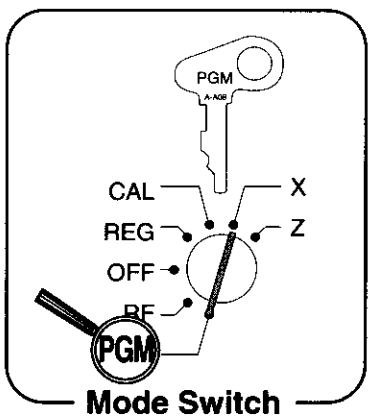
The following procedure lets you program a number of functions.

- Use the [OPEN/CLK#] key as "Clerk" key/"Open" key.*1
- Assign "00" key/Assign "000" key.
- Reset/Not reset (to 0001) the consecutive number when the Daily RESET report is issued.
- Prohibit/Allow the cancel operation.
- Force [SUB TOTAL] key operation before finalization.
- Required/Not required to input the cash in drawer amount before the daily READ/RESET report. (MONEY DECLARATION)
- Clear the key buffer when the transaction is terminated.
- Display Hour/Minute/Second or Hour/Minute on time display.

*1 Effective only after all RESET reports are issued.

Programming procedure

		default	
Use "Clerk" function/Use "Open" function	a	**Open = 0** Clerk = 1	(a+b)
Assign "00" key/Assign "000" key	b	**"00" = 0** "000" = 4	
Reset/Not reset the consecutive number	c	**Reset = 0** Non reset = 2	(c+d)
Prohibit/Allow the cancel operation.	d	**Allow = 0** Prohibit = 4	
Force [SUB TOTAL] key operation before finalization	e	**No = 0** Compulsory = 2	(e+f)
Required/Not required to input the cash in drawer amount before the daily report	f	**Not required = 0** Required = 4	
Clear the key buffer when the transaction is terminated	g	**Not clear = 0** Clear = 1	(g+h)
Display "seconds" during time display.	h	**Suppress = 0** Display = 4	



→ 3 [SUB TOTAL] → 0 6 2 2 [SUB TOTAL] → □ → □ → □ → □ → [CA/AMT TEND] → [SUB TOTAL]

Programming READ/RESET report printing control

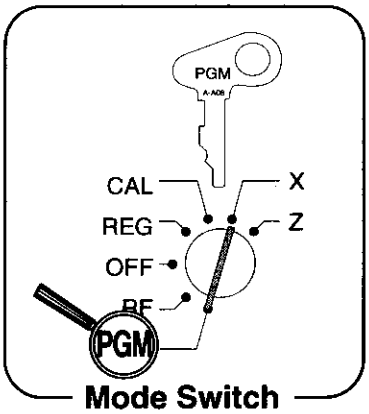
About READ/RESET printing control

The following procedure lets you program a number of functions.

- Print/Skip the RF mode and RF key totals and counters on the daily and periodic report.
- Print/Skip the grand total on the daily reset report.

Programming READ/RESET printing control

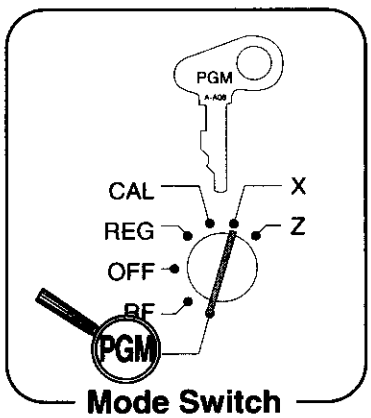
		default	
Print/Skip RF mode and RF key totals on the daily and periodic report.	a	Print = 0 Skip = 1	□ (a+b)
Print/Skip the grand total on the daily reset report.	b	Print = 0 Skip = 2	



→ 3 [SUB TOTAL] → 0 8 2 2 [SUB TOTAL] → 0 □ 0 0 → [CA/AMT/TEND] → [SUB TOTAL]

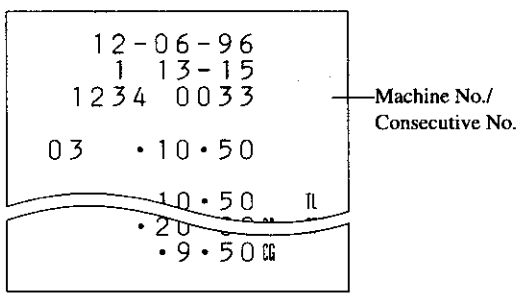
Setting a store/machine number

You can set a 4-digit machine number to identify your machine, the machine number is printed on receipts/journal for each transaction.



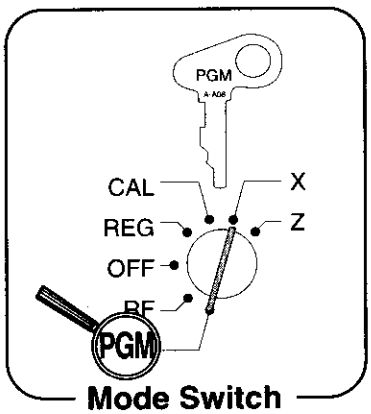
→ 3 [SUB TOTAL] → 0 2 2 2 [SUB TOTAL] → □ Store/Machine No. □ → [CA/AMT/TEND] → [SUB TOTAL]

Example: 0 0 0 1 to 9 9 9 9, 0 0 0 0 means no machine number.



Setting/editing the store telephone number

You can program 4 lines of maximum 14 digits of unique number of your store, such as telephone number, tax payer code... etc.
If you want to print only the telephone number, just refer to page 20 of this manual.
The following procedure shows you how to set or edit your numbers including spaces and hyphens.



1st line: ➡ 3 [SUB TOTAL] ➡ 0 1 3 2 [SUB TOTAL] ➡

2nd line: ➡ 3 [SUB TOTAL] ➡ 0 2 3 2 [SUB TOTAL] ➡

3rd line: ➡ 3 [SUB TOTAL] ➡ 0 3 3 2 [SUB TOTAL] ➡

4th line: ➡ 3 [SUB TOTAL] ➡ 0 4 3 2 [SUB TOTAL] ➡

Enter the number within 14 digits, including spaces and hyphens.
- numerics: 0, 1 ~ 9, 00
- hyphen: [−]
- space: [POST RECEIPT]

➡ [CA/AMT −/TEND] ➡ [SUB TOTAL]

Example:

To print	1234-5678 12-06-96	➡ Enter as 1 2 3 4 [−] 5 6 7 8
To print	123 456-78 9 12-06-96	➡ Enter as 1 2 3 [POST RECEIPT] 4 5 6 [−] 7 8 [POST RECEIPT] 9
To print	123456789 01234 12-06-96	➡ Enter as 1 2 3 4 5 6 7 8 9 0 1 2 3 4

Note: Entries exceed 9 digits are printed in 2 lines.

High digit limitation for departments

Locking out and releasing high digit limitation

Item	Unit Price	$10.50
	Quantity	1
	Dept.	3
	Taxable	$(1)_{preset}$
	Max.digit	$(3)_{preset}$
Payment	Cash	$20.00

OPERATION

1 0 5 0 [×3]
ERROR ALARM
(Exceeding max. digits)

[C CAC]

[OPEN/CLK#]
Cancels limitations for next entry

1 0 5 0 [×3]

[SUB TOTAL]

2 0 00 [CA/AMT −/TEND]

RECEIPT

```
12-06-96
    13-50
1234  0035

03  ·10·50I
    ·10·50I  TA
     ·0·42I  TX

    ·10·92   TL
    ·20·00CA AT
     ·9·08CG
```

Single-item-sales for departments and PLUs

About the single-item-sales items

You can issue a receipt by simply touching the single-item-sales department or PLU. The following examples show how you register single-item-sale departments. Registration of single-item-sale PLUs is identical.

Example 1

Item	Unit Price	$2.00
	Quantity	1
	Dept.	4
	Taxable	2
	Sales Status	Single-Item

OPERATION

2 00 ÷4

RECEIPT

```
12-06-96
 1  14-00
1234  0036

04      •2•00 I
        •2•00 I  TA
        •0•10 I  TX

        •2•10 CA
```

Example 2

Item	Unit Price	($3.00)$_{preset}$
	Quantity	3
	Dept.	4
	Taxable	2
	Sales Status	Single-Item

OPERATION

3 X/FOR DATE/TIME

÷4

RECEIPT

```
12-06-96
 1  14-10
1234  0037

          3 X
        •3•00    @
04      •9•00 I
        •9•00 I  TA
        •0•45 I  TX

        •9•45 CA
```

Example 3

Item 1	Unit Price	$2.00
	Quantity	1
	Dept.	3
	Taxable	2
	Sales Status	Normal
Item 2	Unit Price	$5.00
	Quantity	1
	Dept.	4
	Taxable	2
	Sales Status	Single-Item
Tender	Cash	$7.35

OPERATION

2 00 ×3

5 00 ÷4

Single-Item status is not effective during transaction.

CA/AMT =/TEND

It is necessary to press the finalize key.

RECEIPT

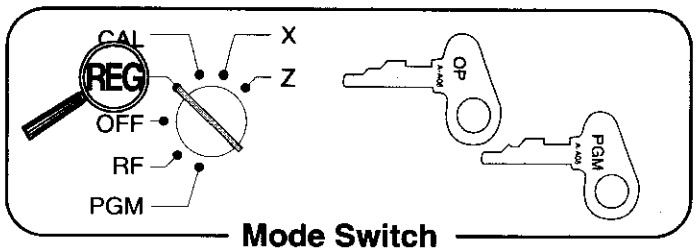
```
12-06-96
 1  14-20
1234  0038

03      •2•00 I
04      •5•00 I
        •7•00 I  TA
        •0•35 I  TX

        •7•35 CA
```

Note: The single-item-sales department or PLU should be registered at the top of the transaction, otherwise the transaction is not finalized. It is necessary to press the CA/AMT =/TEND, CH or CHK key.

Registering sub-departments

Registering sub-departments

The following examples show how you can use sub-departments in various types of registrations. Registering by PLUs, see the "Basic Operations and setups" on page 36.



Sub-department single-item-sale

Item	Unit Price	$6.00
	Quantity	1
	Sub-Dept.	15
	Taxable	$(1)_{preset}$
Payment	Cash	$10.00

OPERATION

1 5 PLU/S.DEPT
PLU (sub-department) code

6 00 PRICE
Unit price

SUB TOTAL

1 0 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
 1  14-30
1234  0039

015     •6•00I
        •6•00I  TA
        •0•24I  TX

        •6•24   TL
       •10•00CA AT
        •3•76CG
```

Sub-department repeat

Item 1	Unit Price	$(\$3.00)_{preset}$
	Quantity	3
	Sub-Dept.	15
	Taxable	$(1)_{preset}$
Item 2	Unit Price	$2.00
	Quantity	2
	Sub-Dept.	15
	Taxable	$(1)_{preset}$
Payment	Cash	$20.00

OPERATION

1 5 PLU/S.DEPT

PRICE

Hitting PRICE without a unit price recalls preset price.

PRICE

PRICE

1 5 PLU/S.DEPT

2 00 PRICE

PRICE

SUB TOTAL

2 0 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
 1  14-40
1234  0040

015     •3•00I
015     •3•00I
015     •3•00I
015     •2•00I
015     •2•00I
        •13•00I  TA
         •0•52I  TX

        •13•52   TL
        •20•00CA AT
         •6•48CG
```

Sub-department multiplication

Item	Unit Price	$6.00
	Quantity	1.25
	Sub-Dept.	15
	Taxable	$(1)_{preset}$
Payment	Cash	$10.00

OPERATION

1 • 2 5 X/FOR /DATE /TIME
Quantity
(4-digit integer/2-digit decimal)

1 5 PLU/S.DEPT

6 00 PRICE

SUB TOTAL

1 0 00 CA/AMT TEND

RECEIPT

```
12-06-96
 1  14-50
1234  0041

      1•25  X
       •6•00    @
015    •7•50I
       •7•50I   TA
       •0•30I   TX

       •7•80    TL
      •10•00CA  AT
       •2•20CG
```

Sub-department split sales of packaged item

Item	Unit Price	12 for $30.00
	Quantity	7
	Sub-Dept.	37
	Taxable	$(1)_{preset}$
Payment	Cash	$20.00

OPERATION

7 X/FOR /DATE /TIME
Quantity being purchased
(4-digit integer/2-digit decimal)

1 2 X/FOR /DATE /TIME
Package quantity
(4-digit integer/2-digit decimal)

3 7 PLU/S.DEPT

3 0 00 PRICE

SUB TOTAL

2 0 00 CA/AMT TEND

RECEIPT

```
12-06-96
 1  15-00
1234  0042

        7  X
       12
      •30•00    @
037   •17•50I
      •17•50I   TA
       •0•70I   TX

      •18•20    TL
      •20•00CA  AT
       •1•80CG
```

To program the tax calculation status and maximum entering digits for each department

Tax calculation status
This digit defines which tax table should be used for automatic tax calculation. See page 15 for information on setting up the tax tables.

Tax Table 1	⇨	1
Tax Table 2	⇨	2
Tax Table 1 and 2	⇨	3
No tax calculation	⇨	0

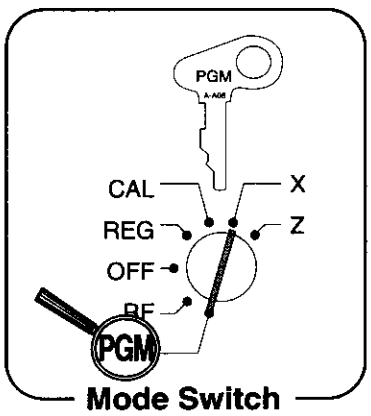
Maximum entering digits
This specification defines how many digits can be used for manual input of a unit price on the keyboard.

No limit	⇨	0
1 digit	⇨	1
2 digits	⇨	2
⋮		
5 digits	⇨	5
6 digits	⇨	6
Manual input not allowed	⇨	9

Selecting 9 means that you can perform department registration using their preset unit price only.

Single-item status/negative department status
This digit defines single-item status and negative department.

Normal dept.	⇨	0
Single item dept.	⇨	1
Negative dept.	⇨	2
Single item/ Negative dept.	⇨	3



→ 3 [SUB TOTAL] → □ □ □ 0 →

Department key
[21 +1] (Dept.1)
[22 -2] (Dept.2)
⋮
[40 20] (Dept.20)
[DEPT SHIFT] [21 +1] (Dept.21)
⋮
[DEPT SHIFT] [40 20] (Dept.40)

→ [SUB TOTAL]

To program PLU links to departments, tax calculation status and PLU/Sub-department selections

Single-item status/negative PLU status/PLU, Sub-dept. selection
This digit defines single-item status and negative department.

Normal PLU	0
Single item PLU	1
Negative PLU	2
Single item/ Negative PLU	3
Normal sub-dept.	4
Single item sub-dept.	5
Negative sub-dept .	6
Single item/ Negative sub-dept.	7

Notes:
- PLU: Register only its preset price
- Sub-department: Register its preset price and manually entered price.

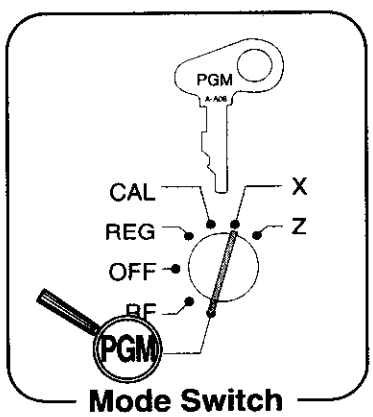
Tax calculation status
This digit defines which tax table should be used for automatic tax calculation. See page 15 for information on setting up the tax tables.

Tax Table 1	1
Tax Table 2	2
Tax Table 1 and 2	3
No tax calculation	0

Linked department
This specification links the PLU to a department.

Department 1	01
⋮	
Department 40	40
No link	00

PLU No.
1 to 600



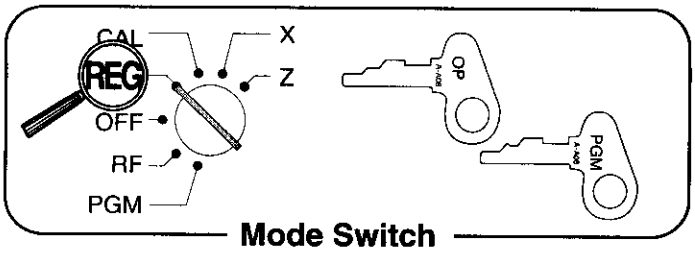
To new (not sequential) PLU

To the next PLU

→ 3 [SUB TOTAL] → PLU No. → [PLU/S.DEPT] → Program code → [CA/AMT-TEND] → [SUB TOTAL]

Registering discounts and premiums

The following example shows how you can use the [%] key as premium in various types of registration.
Note: Before registering premium, you should define the [%] key as premium key. See the next page.



Mode Switch

Discount for items and subtotals

Refer to "Preparing and using discounts" in "Basic Operations and Setups" on page 40.

Premium for items and subtotals

Item 1	Unit Price	$(\$10.00)_{preset}$
	Quantity	1
	Dept.	4
	Taxable	$(2)_{preset}$
Premium	Rate	7%
Item 2	Unit Price	$(\$5.00)_{preset}$
	Quantity	1
	PLU	32
	Taxable	$(2)_{preset}$
Subtotal premium	Rate	$(5\%)_{preset}$
	Taxable	$(1 \text{ and } 2)_{preset}$
Payment	Cash	$20.00

OPERATION

[÷ 4]
[7] [%]
Applies the input value as a premium rate (7%).

[3] [2] [PLU/S.DEPT]
[MD/ST]
For this operation, hit this key instead of [SUB TOTAL].

[%]
Applies the preset premium rate (5%) to the subtotal.

[SUB TOTAL]
[2] [0] [00] [CA/AMT =/TEND]

RECEIPT

```
12-06-96
 1  15-10
1234  0043

04    •10•00 H
          7   %
      •0•70 H
032   •5•00 H
      •15•70 ST
          5   %
      •0•79 M
      •16•49 H      TA
      •0•82 H       TX

      •17•31        TL
      •20•00 CA     AT
       •2•69 CG
```

- You can manually input rates up to 4 digits long (0.01% to 99.99%).

Taxable status of the [%] key

- Whenever you perform a discount/premium operation on the last item registered, the tax calculation for discount/premium amount is performed in accordance with the tax status programmed for that item.
- Whenever you perform a discount/premium operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the [%] key.

Programming discounts and premiums

You can use the [%] key to register either discounts (percentage decreases) or premium (percentage increases). The following procedures let you select the operation you want for [%] key. They also let you program a preset rate, the tax calculation method and the tax rounding method.

To program discount or premium rate

Refer to "Preparing and using discounts" in "Basic Operations and Setups" on page 40.

To program tax calculation status, tax rounding method and the key attribution

Tax calculation status
This specification defines where the result of the percent calculation on a subtotal should be reflected (added to or subtracted from) for tax purposes.
Note that this specification is for calculations with subtotal only, and is not applied for calculations involving individual items.

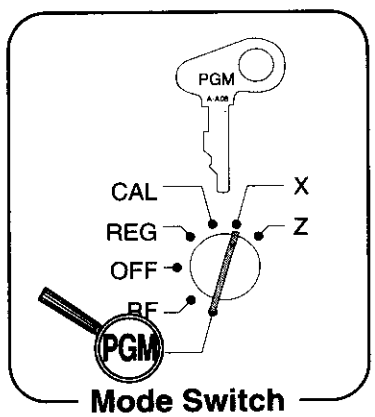
Tax Table 1	⇨	1
Tax Table 2	⇨	2
Tax Table 1 and 2	⇨	3
No tax calculation	⇨	0

Tax rounding method
This specification defines the method used to round the result of a percentage calculation.

Round off	⇨	0
Cut off	⇨	1
Round up	⇨	2

Key attribution

Use as discount key (%–)	⇨	0
Use as premium key (%+)	⇨	1



➡ 3 [SUB TOTAL] ➡ 0 [Preset data] ➡ [%] ➡ [SUB TOTAL]

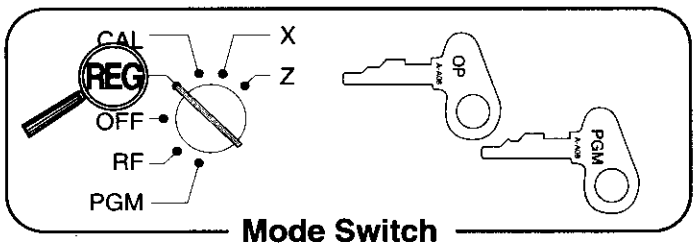
Registering manually entered tax amounts

You can program the cash register to change the function of the [%] key to that of a [M-TAX] (Manual Tax) key. The [M-TAX] key is used to register manually entered tax amounts.

Important!

If you program the cash register to perform registrations with manually entered tax amounts, the [M-TAX] key replaces the [%] key, so discount/premium registration to be impossible.

Registering manual tax



Example

Item 1	Unit Price	$10.00
	Quantity	1
	Dept.	1
	Taxable	No
	M-TAX	Normal
Item 2	Unit Price	$20.00
	Quantity	1
	Dept.	2
	Taxable	2
Tender	Cash	$32.00

OPERATION

1 0 00 +1

5 0 M-TAX

[%] key is assigned to [M-TAX] key.

2 0 00 _2

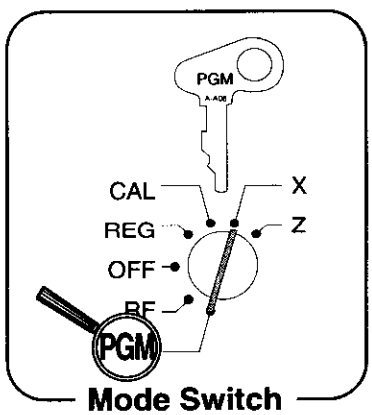
SUB TOTAL

3 2 00 CA/AMT =/TEND

RECEIPT

```
12-06-96
  1  15-20
1234  0044

01  ·10·00
      ·0·50   TX
02  ·20·00 I
    ·20·00 I  TA
     ·1·00 I  TX

    ·31·50   TL
    ·32·00 CA AT
     ·0·50 CG
```

Programming for manually input tax registration



→ 3 SUB TOTAL → 0 0 4 0 → % → SUB TOTAL

Fixed value

Other programmable options

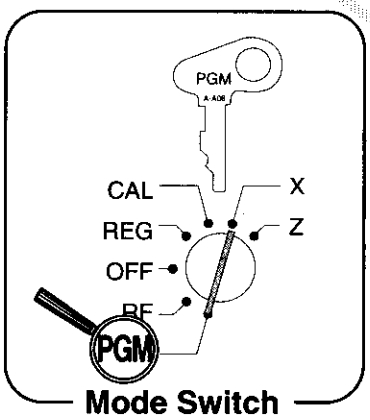
Programming amount tender compulsory and prohibit amount tender

Amount tender compulsory

Force amount tender ⇨ 1
Not force amount tender ⇨ 0

Prohibit amount tender

Allow amount tender ⇨ 0
Prohibit amount tender ⇨ 1



➡ 3 [SUB TOTAL] ➡ 0 Preset data 0 ➡ [CA/AMT TEND], [CHK] ➡ [SUB TOTAL]

Programming credit balance and tax status to subtraction key

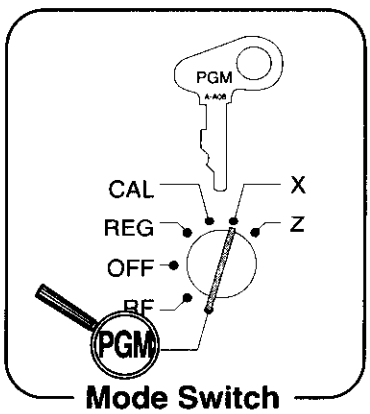
Tax calculation status

This specification defines where the result of the subtraction should be reflected (subtracted from) for tax purposes.

Tax Table 1 ⇨ 1
Tax Table 2 ⇨ 2
Tax Table 1 and 2 ⇨ 3
No tax calculation ⇨ 0

Credit balance

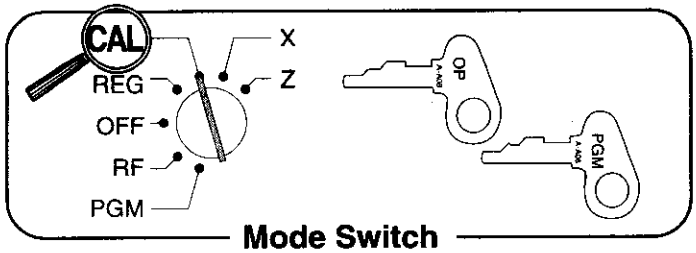
Prohibit credit balance ⇨ 0
Allow credit balance ⇨ 1



➡ 3 [SUB TOTAL] ➡ 0 Preset data 0 ➡ [−] ➡ [SUB TOTAL]

Calculator functions

While registering at the REG mode, you can switch to CAL mode and then return to REG mode to resume the registration.



Mode Switch

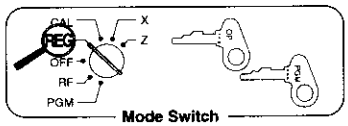
Example 1 (Calculation examples)

	OPERATION	DISPLAY
Clear	C C	0
5+3–2=	5 +1 3 –2 2 CA/AMT =/TEND	6
(23–56)×78=	2 3 –2 5 6 ×3 7 8 CA/AMT =/TEND	-2574
(4×3–6)/3.5+8=	4 ×3 3 –2 6 ÷4 3 • 5 +1 8 CA/AMT =/TEND	9.714
12% on 1500	1 5 0 0 –2 ×3 1 2 %	180

Example 2 (Memory recall)

Item 1	Unit Price	$10.00
	Quantity	1
	Dept.	1
	Taxable	$(1)_{preset}$
Item 2	Unit Price	$20.00
	Quantity	1
	Dept.	2
	Taxable	$(1)_{preset}$
Payment by 3 persons Cash 10.40_{each}		

OPERATION

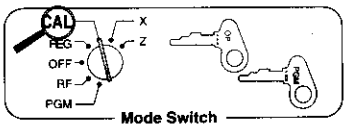


Mode Switch

1 0 00 +1

2 0 00 –2

SUB TOTAL



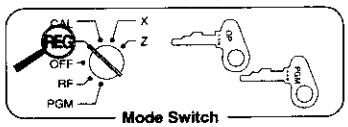
Mode Switch

PLU/S.DEPT

Memory recall:
Recalls subtotal amount

÷4 3 CA/AMT =/TEND

Divides the subtotal by 3 persons.



Mode Switch

PLU/S.DEPT

Memory recall:
Recalls the result amount

CA/AMT =/TEND

PLU/S.DEPT CA/AMT =/TEND

PLU/S.DEPT CA/AMT =/TEND

DISPLAY/RECEIPT

```
12-06-96
  1 15-30
1234  0045

01  •10•00I
02  •20•00I
```

3 12

10.4

```
•30•00I  TA
 •1•20I  TX

•31•20   TL
•10•40 CA
•10•40 CA
•10•40 CA
 •0•00 CG
```

Notes:

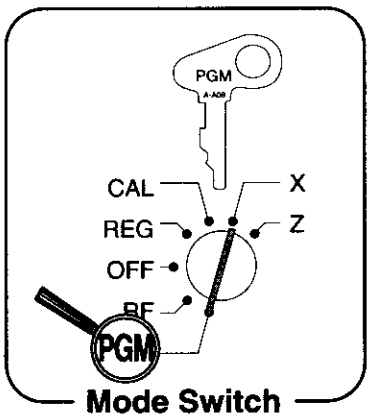
1. Pressing the [PLU/S.DEPT] key in the **CAL** mode recalls
   ①Current subtotal (During registration)
   ②The last amount (Registration has been completed)
2. Pressing the [PLU/S.DEPT] key in the **REG** mode recalls
   The current result by pressing the [CA/AMT/TEND] key at the CAL mode.

Programming calculator mode control

The following procedure lets you program a number of functions in CAL mode.

- Open/Not open the cash drawer when the "Equal" key ([CA/AMT/TEND] key on the keyboard) is pressed.
- Open/Not open the cash drawer when the "Drawer open" key ([%/NS] key on the keyboard) is pressed.
- Print/Skip the "Equal" key total/count on the daily READ/RESET report.

		default	
Open/Not open drawer when the [CA/AMT/TEND] (equal) key is pressed in CAL mode.	a	Not open = 0 Open = 1	□ (a+b+c)
Open/Not open drawer when the [%/NS] (drawer open) key is pressed in CAL mode.	b	Not open = 0 Open = 2	
Print/Skip the [CA/AMT/TEND] (equal) key total and count on the daily report.	c	Print = 0 Skip = 4	



→ 3 [SUB TOTAL] → 1 0 2 2 [SUB TOTAL] → 0 □ 0 0 → [CA/AMT/TEND] → [SUB TOTAL]

Printing READ/RESET reports

- READ report
  You can print READ reports at any time during the business day without affecting the data stored in the cash register's memory.
- RESET report
  You should print RESET reports at the end of the business day.

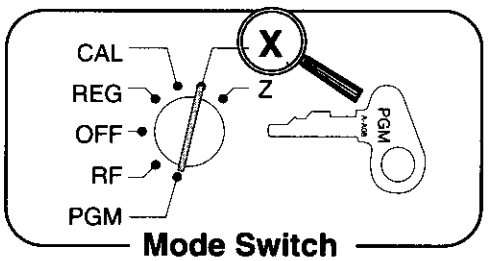
Important!

- **The RESET operation issues a report and also clears all sales data from the cash register's memory.**
- **Be sure to perform the RESET operations at the end of each business day. Otherwise, you will not be able to distinguish between the sales data for different dates.**

To print the individual department READ report

This report shows sales for specific departments.

OPERATION



Mode Switch

Specifying a department

[21 +1] ... [40 20], [DEPT SHIFT] [21 +1] ... [DEPT SHIFT] [40 20]

If you want to read any other department, continue specifying department keys ...

[SUB TOTAL]

After you finish to select departments, press [SUB TOTAL] to terminate.

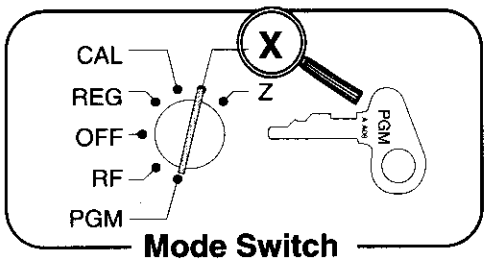
REPORT

```
    12-06-96          — Date
     1  15-40         — Clerk No./Time
  1234  0046          — Machine No./Consecutive No.

                X     — READ symbol

01          15        — Department No./No. of items
   •339•50            — Department amount
02          19
    •62•70
03          31
   •139•10
•••••••••
          253         — Total No. of items
  •1146•90  TL        — Total amount
```

To print the individual PLU/sub-department READ report

This report shows sales for specific PLUs/sub-departments.

OPERATION



Specifying a PLU/sub-department by its code

(1 ~ 6 00)

PLU/S.DEPT *1

If you want to read any other PLU/sub-department, continue specifying codes...

SUB TOTAL

After you finish to select PLU/sub-department, press SUB TOTAL to terminate.

REPORT

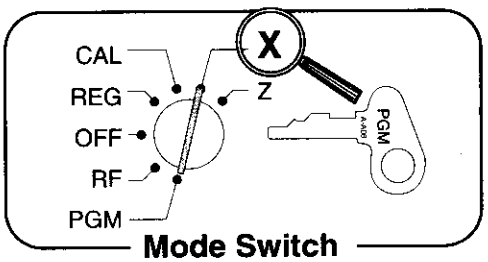
```
   12-06-96                  Date
    1  15-50                 Clerk No./Time
1234  0047                   Machine No./Consecutive No.

                X            READ symbol

003          21             PLU/sub-department No./
     •27•30                  No. of items
050          12
     •36•00                 PLU/sub-department amount
021          13
     •65•36

          46                 Total No. of items
   •128•30          TL       Total amount
```

*1 Press PLU/S.DEPT directly to specify the next PLU/sub-department.

To print the financial READ report

This report shows gross sales, net sales, cash in drawer and check in drawer.

OPERATION



Money declaration *2

(Cash in drawer amount #/NS)

X/FOR/DATE/TIME

REPORT

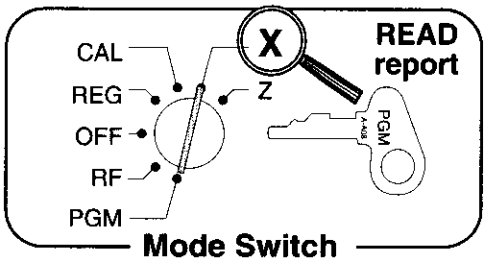
```
   12-06-96                  Date
    1  16-00                 Clerk No./Time
1234  0048                   Machine No./Consecutive No.

                X            READ symbol

          253                Gross No. of items
 •1146•90           TL       Gross amount
      100           No       Net No. of customers
 •1217•63 NT                  Net amount
  •908•06 CA        #        Cash in drawer (b)
  •908•06           #        Declared amount (a)
    •0•00                    Difference (a) with (b)
  •125•97 CH        #        Charge in drawer
  •183•60           CK       Check in drawer
```

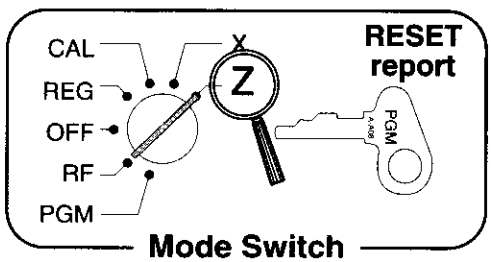
*2 Money declaration:
Count how much cash is in the drawer and input this amount (up to 8 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 57), you cannot skip this procedure.

To print the daily sales READ/RESET report

This report shows sales except for PLUs.

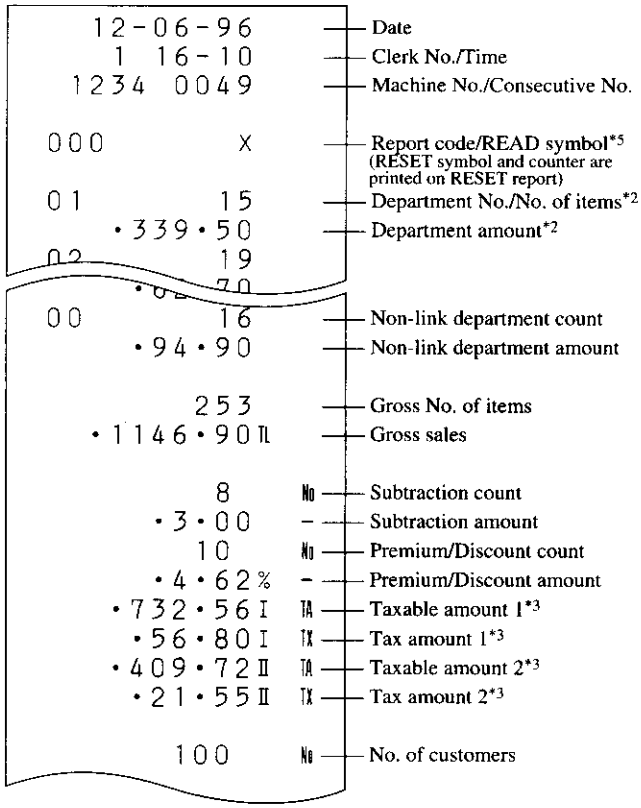
OPERATION **REPORT**

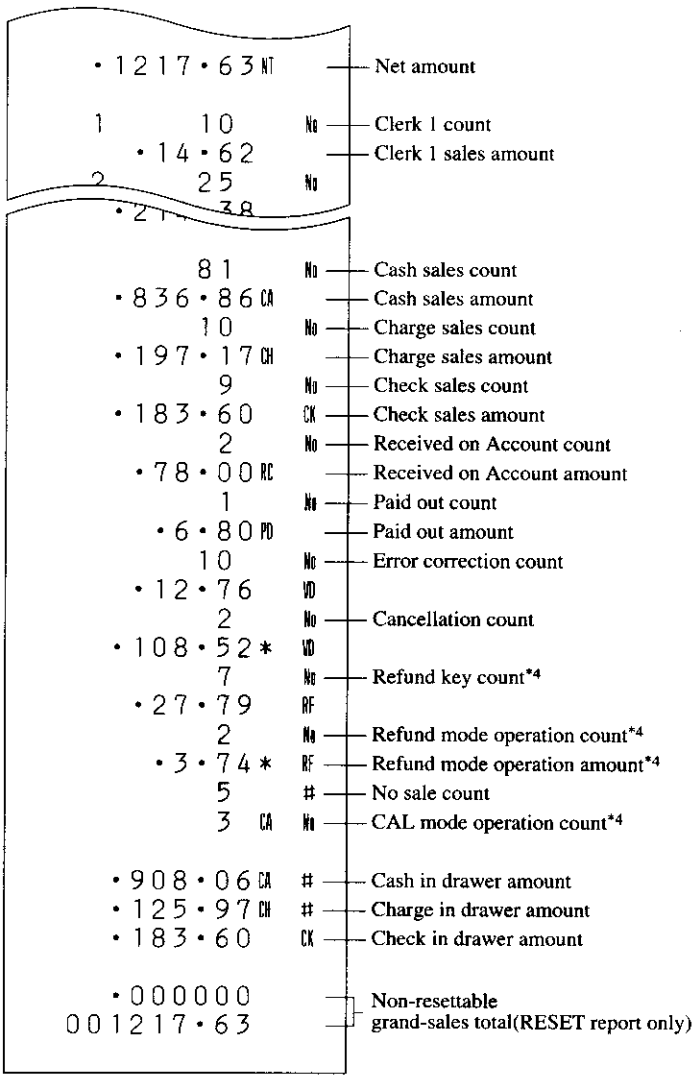




Money declaration *1
(Cash in drawer amount #/NS)

CA/AMT =/TEND





*1 Money declaration:
Count how much cash is in the drawer and input this amount (up to 8 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 57), you cannot skip this procedure.

*2 Zero totaled departments (the amount and item numbers are both zero) are not printed.

*3 Taxable amount and tax amount are printed only when the corresponding tax table is programmed.

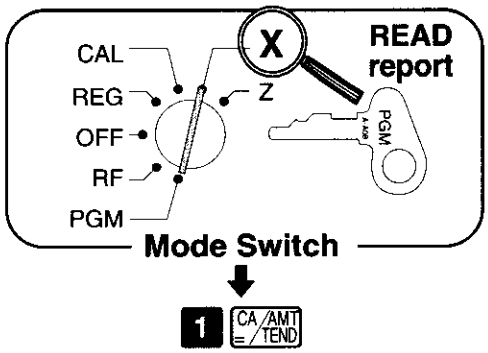
*4 These items can be skipped by programming.

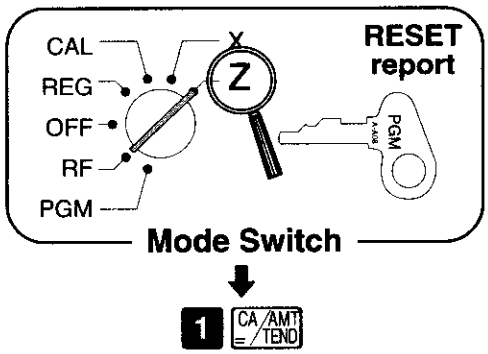
5 The "" symbol is printed on the RESET report, when memory overflow occurred in the totalizer.

To print the PLU/sub-department READ/RESET report

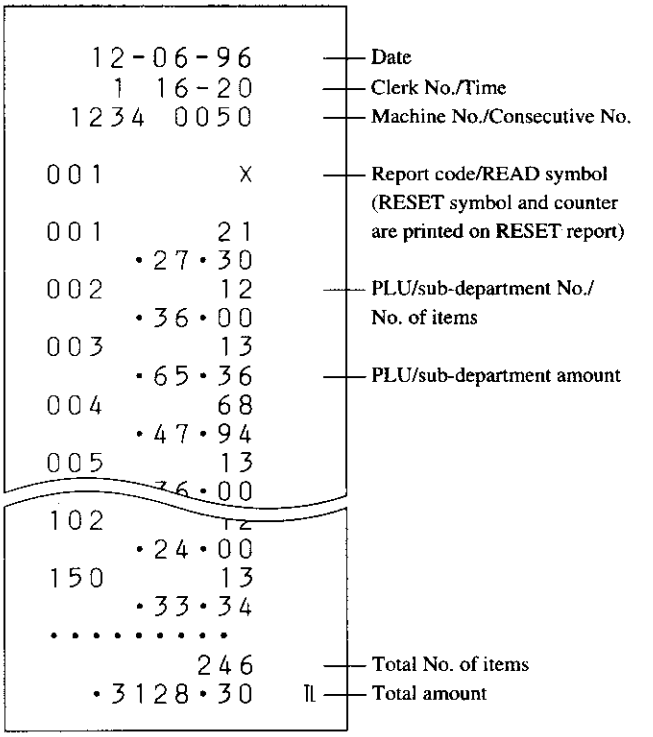
This report shows sales for PLUs/sub-departments.

OPERATION





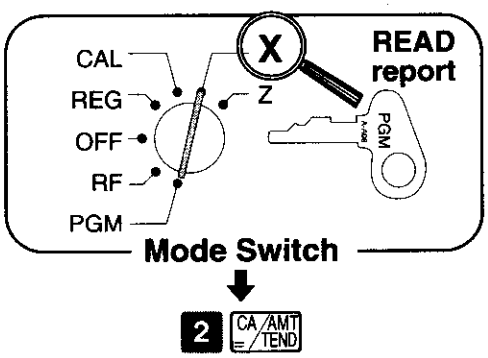
REPORT

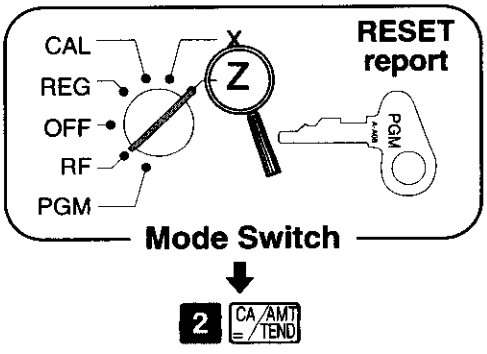


To print the hourly sales READ/RESET report

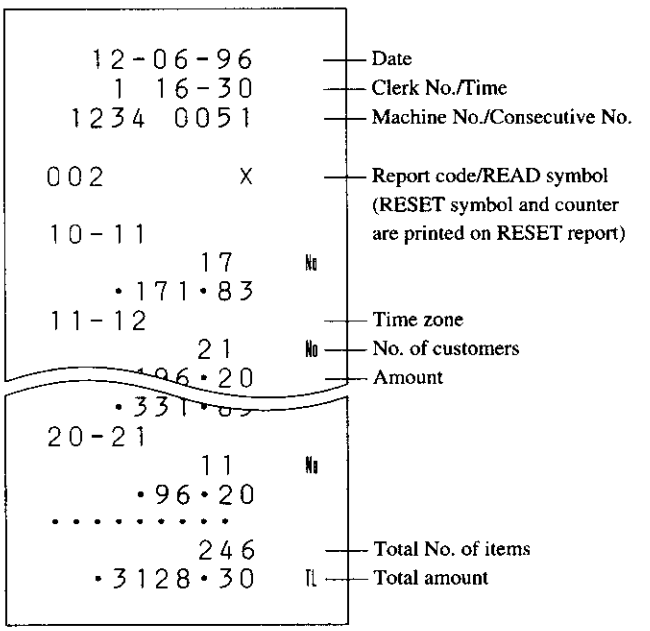
This report shows hourly breakdowns of sales.

OPERATION





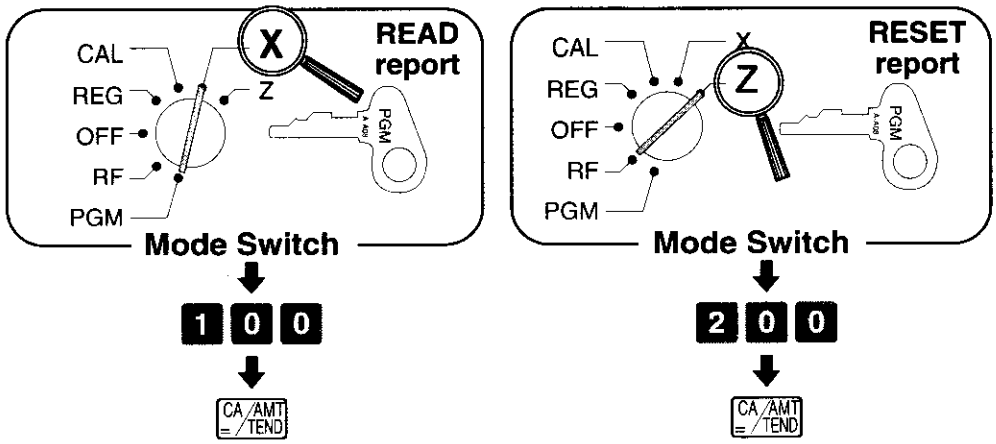
REPORT

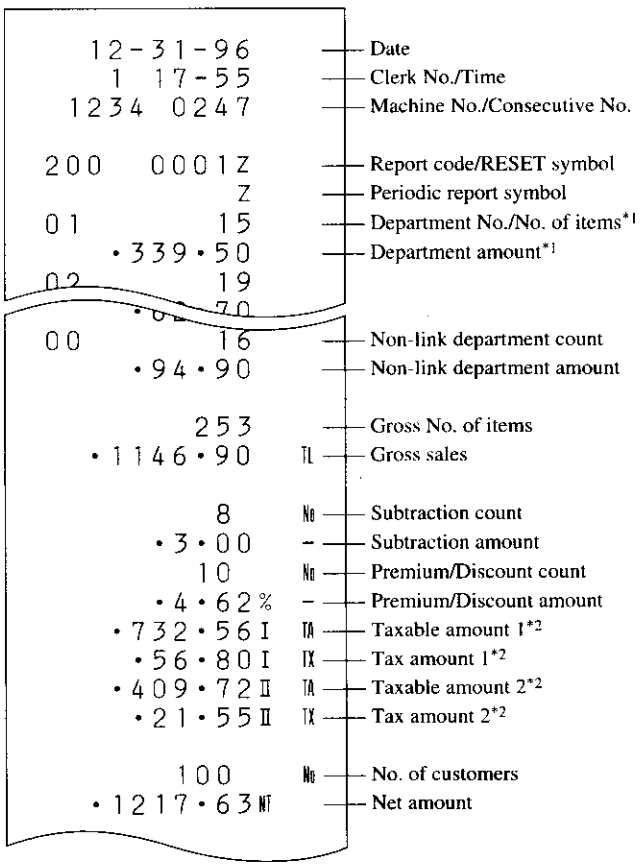


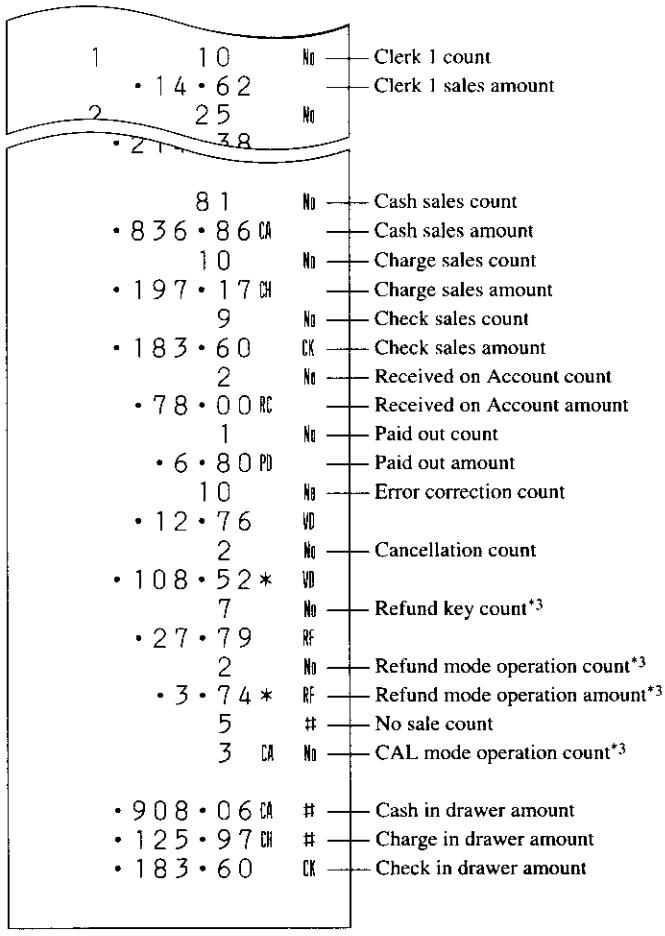
To print the periodic sales READ/RESET report

This report shows sales breakdowns of sales by any period you want.

OPERATION **REPORT**





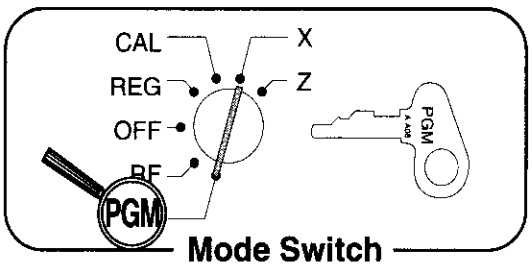


*1 Zero totalled departments (the amount and item numbers are both zero) are not printed.
*2 Taxable amount and tax amount are printed only when the corresponding tax table is programmed.
*3 These items can be skipped by programming.

Printing the cash register's program

To print programming (except PLU)

OPERATION



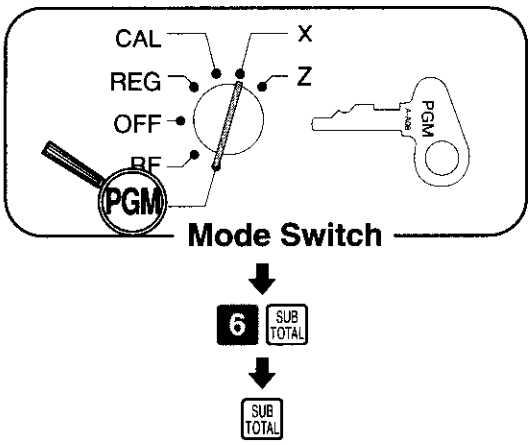
REPORT

```
   12-06-96                    Date
      09-15                    Time
1234  0005                     Machine No./Consecutive No.

            X                  READ symbol

01      •1•00I  @              Dept. No./Unit price/Tax status
        0112                   Single item status/Listing capacity*1
02      •2•00II @
        0212
03      •3•00III @
        0312
        40•00I  @
        0112

        0000CA                 Cash key programming
        0000CH                 Charge key programming
        0000    CK             Check key programming
              I -              Minus key programming
        0100  -                Minus key programming
      12•34  % -               Discount/Premium rate
             %                 Discount/Premium key programming
        0300% -                Discount/Premium key programming

0122••0032                     Monetary mode/Date printing order
0222••1234                     Store/Machine number
0522••0020                     Printing controls
0622••0001                     Compulsory/Calculation method control
0822••0000                     Printing control of X/Z report
1022••0000                     Calculation mode control

0125
          10   %
        5002                   Tax table 1*1
        0000
0225
           0   %
        0000                   Tax table 2*1
          02
        0032

0132
  801-                         Tel. number
  123-4567

  12-06-96                     Date
```

*1 Department or tax table without being programmed are not printed on this report.

To print programming

OPERATION



REPORT

```
12-06-96                    — Date
   09-30                    — Time
1234  0006                  — Machine No./Consecutive No.

          X                 — READ symbol

001  ·1·00I  @              — PLU No./Unit price/Tax status*1
     0012                   — Single item status/Link dept.*1
002  ·2·00II @
     0012
003  ·3·00III @
     0012
004  ·4·00I  @
     0012
12-06-96                    — Date
```

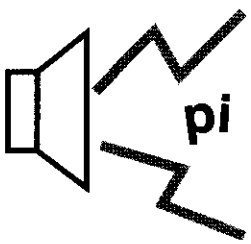
*1 PLU without being programmed is not printed on this report.

This section describes what to do when you have problems with operation.

When an error occurs

Errors are indicated by an error tone. When this happens, you can usually find out what the problem is as illustrated below.

ERROR TONE



Does the display show an error code?

No ⇩

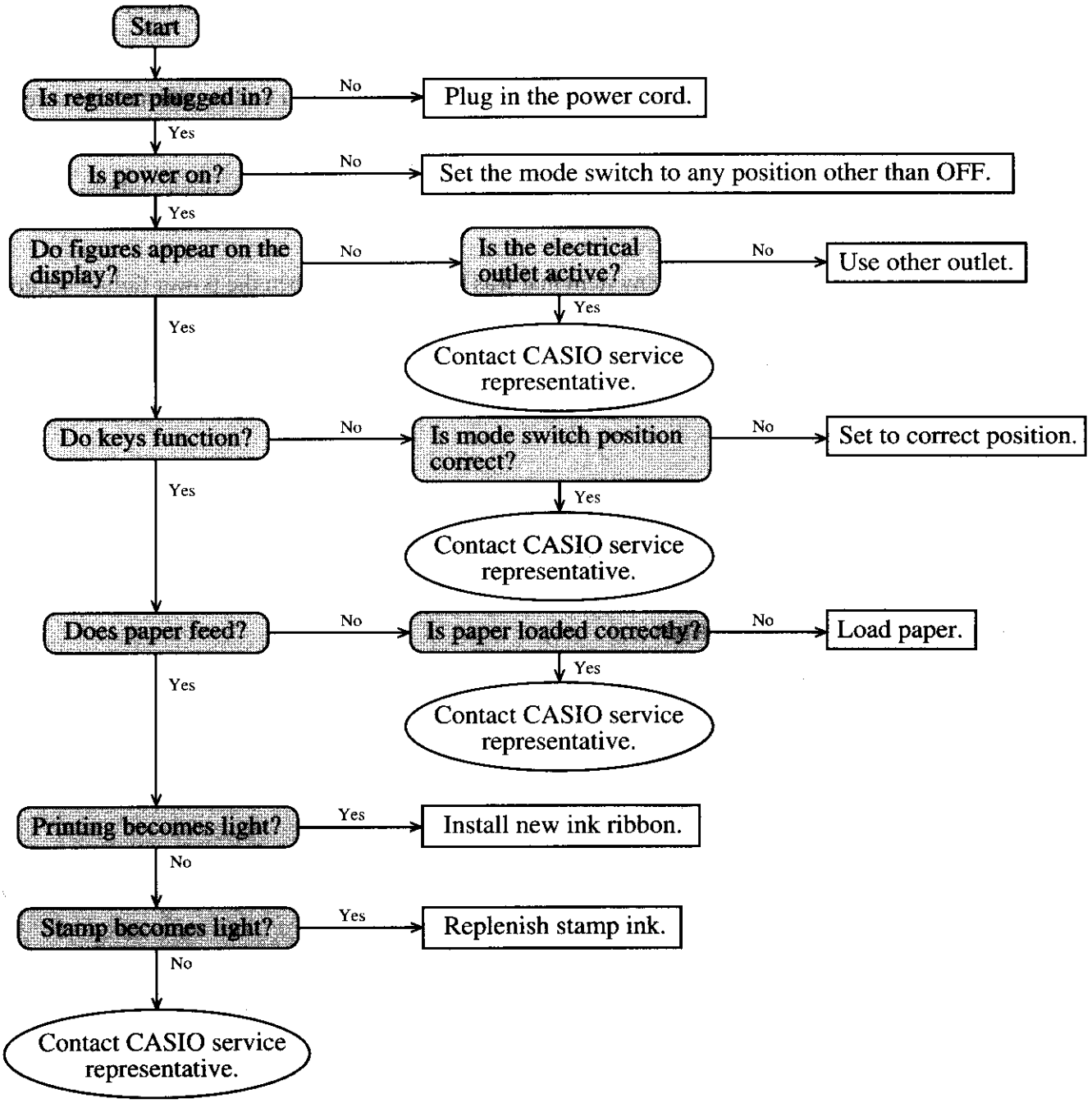
Yes ⇩

Error Code	Meaning	Action
E01	Mode switch position changed before finalization.	Return the mode switch to its original setting and finalize the operation.
E08	Registration without entering a clerk number. This error appears only when the clerk control function is activated.	Enter a clerk number.
E27	Transaction cancel buffer is full.	Finalize the transaction.
E31	Finalization of a transaction attempted without comfirming the subtotal.	Press the [SUB TOTAL] key.
E33	Finalize operation attempted without entering amount tendered.	Enter the amount tendered.
E38	READ/RESET operation without declaring cash in drawer. This error appears only when this function is activated.	Perform money declaration.
E94	Printer error.	Turn the power off, and remove jammed paper from the printer.

Press the [C] key and check the appropriate section of this manual for the operation you want to perform.

When the register does not operate at all

Perform the following check whenever the cash register enter an error condition as soon as you switch it on. The results of this check are required by service personnel, so be sure to perform this check before you contact a CASIO representative for servicing.



In case of power failure

If the power supply to the cash register is cut by a power failure or any other reason, simply wait for power to be restored. The details of any on-going transaction as well as all sales data in memory are protected by the memory backup batteries.

- Power failure during a registration
  The subtotal for items registered up to the power failure is retained in memory. You will be able to continue with the registration when power is restored.
- Power failure during printing a READ/RESET report
  The data already printed before the power failure is retained in memory. You will be able to issue a report when power is restored.
- Power failure during printing of a receipt and journal
  Printing will resume after power is restored. A line that was being printed when the power failure occurred is printed in full.
- Other
  The power failure symbol is printed and any item that was being printed when the power failure occurred is reprinted in full.

Important!

Once receipt/journal printing or printing of a report starts, it can be stopped only by interruption of power to the cash register.

When the L sign appears on the display

About the low battery indicator...

The following shows the low battery indicator.

If this indicator appears when you switch the cash register on, it can mean one of three things:

- No memory backup batteries are loaded in the cash register.
- The power of the batteries loaded in the unit is below a certain level.
- The batteries loaded in the unit are dead.

To clear this sign, press the [C] key.

Important!

Whenever the low battery indicator appears on the display, load a set of three new batteries as soon as possible. If there is a power failure or you unplug the cash register when this indicator appears, you will lose all of your sales data and settings.

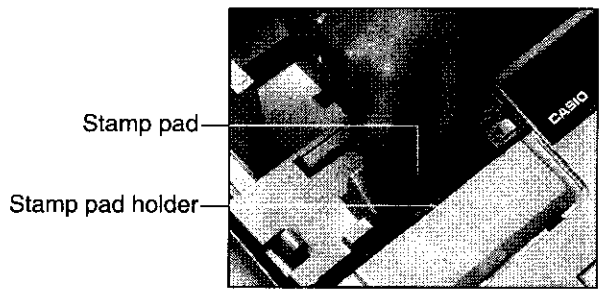
BE SURE TO KEEP THE POWER CORD OF THE CASH REGISTER PLUGGED IN WHENEVER YOU REPLACE THE BATTERIES.

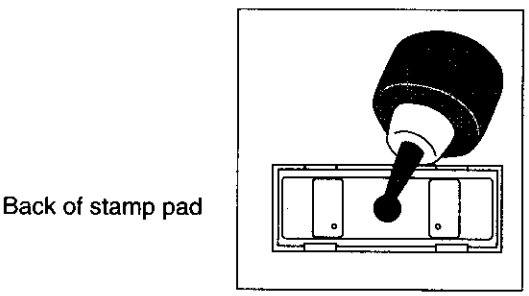
To replenish stamp ink

1. Remove the printer cover.
2. Grasp the stamp pad on both sides and lift it out of its holder.
3. Fill one or two drops of ink into the hole on the back of the stamp.
4. Replace the stamp pad in its holder.
5. Replace the printer cover.

Important!

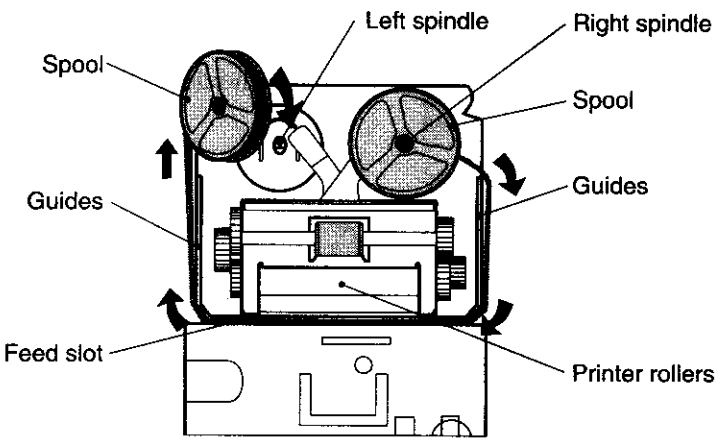
Use only CASIO SUPER INK K or SUPER INK KC. Chemical reaction between different types of ink can damage the stamp pad.





To replace the ink ribbon

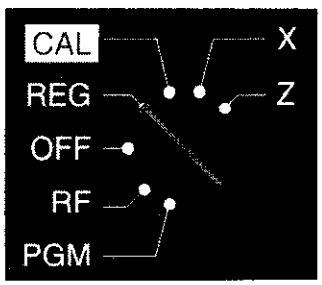
1. Remove the printer cover.
2. Remove the inner cover by grasping its top on the left side and lifting up to the right.
3. Unroll about 10 centimeters of ribbon and place the take-up spool on the left shaft.
4. Insert the ribbon into the ribbon feed slot between the printer rollers. Loop the ribbon around the outside guard brackets as in the illustration.
5. Move the ribbon clip to the left. While holding the clip open, place the feed spool on the right shaft and take up any slack in the ribbon.

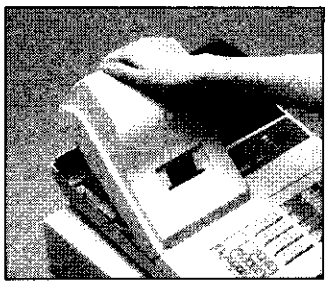


Important!

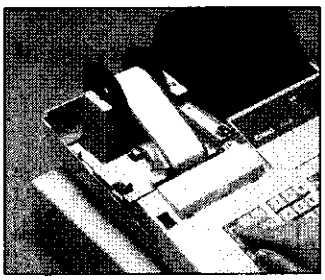
Use only the RAP-01 ribbon (purple). Other types of ink ribbons can damage the printer. Never try to extend the life of an ink ribbon by replenishing the ink. Once an ink ribbon is in place, press the [NS] key to test for correct operation.

To replace journal paper

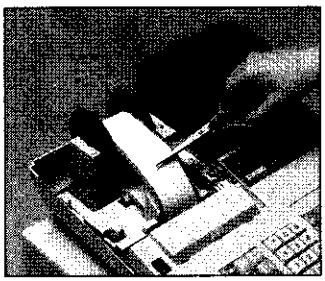




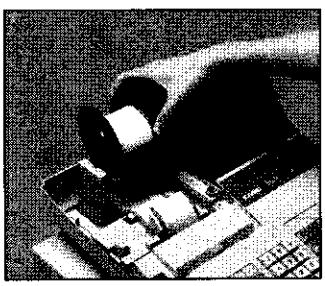
1. Set the mode switch to the REG position and remove the printer cover.



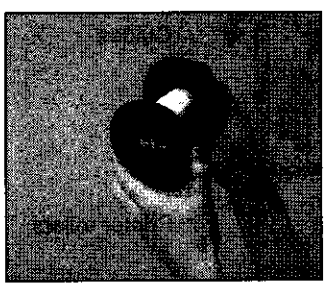
2. Press FEED to feed about 20 cm of paper.



3. Cut the journal paper at the point where nothing is printed.



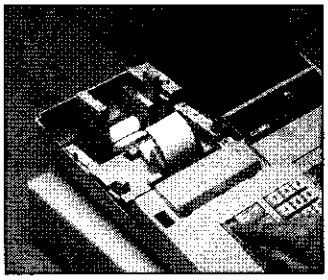
4. Remove the journal take-up reel from its holder.



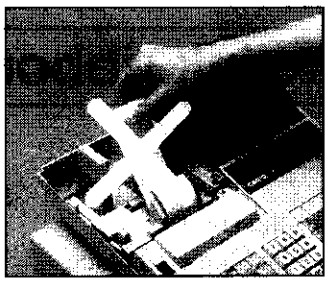
5. Remove the flat plate from the side of the take-up reel.

6. Slide the printed journal from the take-up reel.

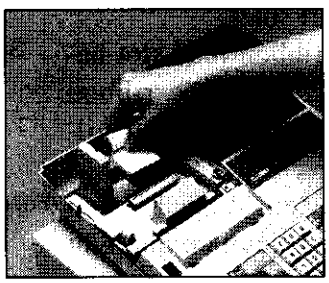
7. Cut the journal paper as shown in the photograph.



8. Press FEED to feed the remaining paper from the printer.



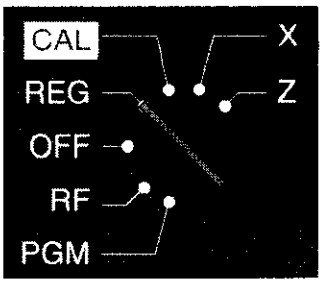
9. Do not pull the paper out of the printer by hand. It can damage the printer.

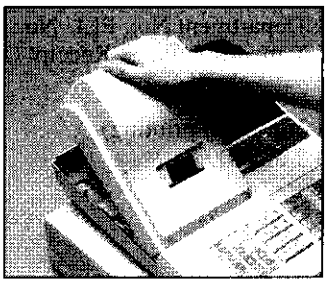


10. Remove the old paper roll from the cash register.

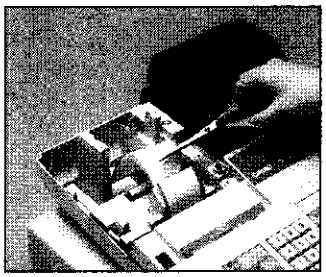
11. Load new paper as described on page 12 of this manual.

To replace receipt paper

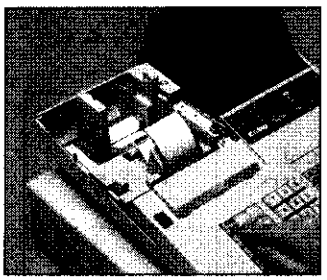




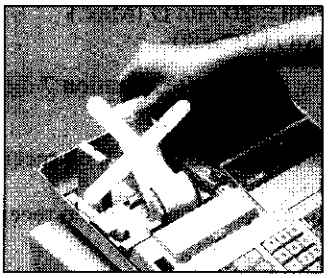
1. Set the mode switch to the REG position and remove the printer cover.



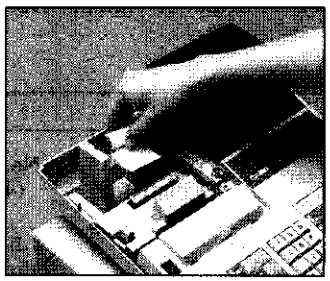
2. Cut the receipt paper as shown in the photograph.



3. Press FEED to feed the remaining paper from the printer.



4. Do not pull the paper out of the printer by hand. It can damage the printer.



5. Remove the old paper roll from the cash register.

6. Load new paper as described on page 11 of this manual.

Options

WT-73 wetproof cover

The optional wetproof cover protects the keyboard from moisture damage.

INPUT METHOD

Entry:	10-key system; Buffer memory 8 keys (2-key roll over)
Department:	Full key system

DISPLAY (LED) Amount 8 digits (Zero suppression); Department No.; PLU No.; No. of repeats; TOTAL; CHANGE; X mode; Z mode; Receipt On/Off

PRINTER

Printer:	Single sheet impact printer (Receipt or journal printing) 12 digits (Amount 10 digits/Symbol 2 digits)
Journal:	Automatic take up roll winding
Print speed:	3.2 lines/sec.
Feed speed:	3.2 lines/sec.
Paper roll:	58 mm × 80 mm Ø (Max.)
2-ply paper roll	58 mm × 80 mm Ø (Max.) CASIO CP-5880

CALCULATIONS Entry 8 digits; Registration 7 digits; Total 8 digits

CHRONOLOGICAL DATA

Date print:	Automatic date printout on receipt or journal Automatic calendar
Time print:	Automatic time printout on receipt or journal
Time display:	24-hour system

ALARM Entry confirmation signal; Error alarm

TOTALIZERS

Category	No. of totalizers	Contents				Periodic totalizers
		Amount (8 digits)	No. of items (4 digits)	Count (4 digits)	No. of customers (4 digits)	
Department	40	○	○ (4 digits integer/ 2 digits decimal)			○
PLU	600	○	○ (4 digits integer/ 2 digits decimal)			
Hourly sales	24	○			○	
Clerk*	15	○			○	
Transaction	25	○ or	○ or	○ or	○	○
Non resettable grand sales total	1	○ 14 digits				
Reset counter	4			○		○
Consecutive No.	1			○ 4 digits		

* Available only when the clerk control function is active on the cash register.

Memory protection batteries The effective service life of the memory protection batteries (three new SUM-3 or UM-3 type batteries) is approximately one year from installation into the machine.

Power supply/ Power consumption As noted on the plate affixed to right side of register.

Operating temperature 32°F - 104°F (0°C - 40°C)

Humidity 10 - 90%

Dimensions and Weight $10_{19/32}$"(H) × $13_{11/16}$"(W) × $17_{27/32}$"(D)/15lbs 14oz.....with small size drawer

**** Specifications and design are subject to change without notice.***

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LIMITED WARRANTY: ELECTRONIC CASH REGISTERS

This product, except the battery, is warranted by Casio to the original purchaser to be free from defects in material and workmanship under normal use for a period, from the data of purchase, of one year for parts and 90 days for labor. For one year, upon proof of purchase, the product will be repaired or replaced (with the same or a similar model) at Casio's option, at a Casio Authorized Service Center without charge for parts. Labor will be provided without charge for 90 days. The terminal resident software and programmable software, if any, included with this product or any programmable software which may be licensed by Casio or one of its authorized dealers, is warranted by Casio to the original licensee for a period of ninety (90) days from the date of license to conform substantially to published specifications and documentation provided it is used with the Casio hardware and software for which it is designed.

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CASIO, INC.
570 MOUNT PLEASANT AVENUE,
P. O. BOX 7000, DOVER, NEW JERSEY 07801 U.S.A.

Model:.....Serial Number:.....Date of Purchase:.....

Your Name:.....

Address:.....

Dealer's Name:.....

Address:.....

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